#### The Railway and Locomotive Historical Society

BULLETIN No. 67

## **HISTORY**

of the

# **LOCOMOTIVES**

of the

# READING COMPANY

By GEORGE M. HART





# HISTORY OF THE LOCOMOTIVES

of the

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I sincerely hope that every reader of this publication will take the trouble to read not only these few notes but the text and explanations that accompany the lists. If he fails to do so, I fear the latter will be of little use to him.

The Philadelphia & Reading R. R. ranks as one of the early rail-roads in this country. Although it is not a large road, as compared with many, it has been an extremely busy road carrying coal from the mines to tidewater. Its locomotive shops at Reading, Pennsylvania have not only kept its locomotives in repair, modernized and rebuilt a great many, but the road, like many others, has built new locomotives in these shops, commencing at a very early date and continuing to recent years. Its motive power has always been distinctive and of great interest.

The problem of presenting this army of locomotives in list form has been carefully studied by the author and your editor. The records of the motive power naturally fall into three divisions; from 1836 to the abolition of names in December, 1872; from that date to the renumbering in 1900 and from that date to the present. The editor knows full well that some of you like to have all of the number ones follow each other in a group, to be followed by number two and so on to the very

end. This plan was considered and discarded—the list would have been nothing short of a Chinese puzzle, it would not have been clear because of the large amount of rebuilding and I don't believe it would have been satisfactory or understandable to you or to anyone else. To those who craim it will be impossible to identify some of their prints, I firmly believe that a study of the many illustrations together with the data

furnished in the list should take care of that situation.

The annual reports of the company deserve mention. They rank with those of the Pennsylvania and Louisville & Nashville R. R. reports for detail, not only of operations but for their motive power also. first detailed list appears in the report for 1845 and the engines are all grouped according to the individual builder with the totals for each. This continues for about a decade and during the Civil War under the column, "Condition and Duty," we find Reading locomotives helping out in the service of the Pennsylvania R. R., Northern Central Ry., Huntington & Broad Top R. R. and others. In 1865 we find the locomotives listed alphabetically according to their names, but in 1872, the last report giving the names of the locomotives, they are listed according to the date they entered service on the Reading R. R. This plan has been followed by the author in his list of locomotives from 1836-1871 since it is the only method that could be used. Such locomotives as were renumbered, the number will be found at the extreme left. Note even that the locomotives of the P. G. & N. were arranged alphabetically, not according to date of construction, on the Reading roster.

Whether there was any attempt to classify the locomotives according to name would be rather difficult to state at this late day. Mr. F. Stewart Graham has suggested the following and it seems reasonable. You may

note that the following types carried these names in general:

4-4-0 after cities, such as Omaha, Denver, Duluth, etc. 4-6-0 after nationalities, such as Siberian, Russian, etc. 0-4-0 after small animals, such as Wharf Rat, Mole, etc. 0-6-0 after mythical characters such as Winawa, Apollo

0-6-0 after mythical characters, such as Minerva, Apollo, etc.

0-8-0 after states, such as Idaho, Colorado, etc.

With the use of numbers, numerical sequence was followed in the reports and has, of course been followed in the two other lists. This has been strictly adhered to in the 1871-1900 roster but in the 1900-1944 roster, in the lower numbers, where large groups of new locomotives, such as the Pacifics, replaced older engines, these new locomotives have been listed, in a block at the end of the replacement. This was done in order that the roster would be clear and, since it applies to only the lower numbers of the present series, it should present no great difficulty, though we regret the necessity of breaking the numerical sequence.

The renumbering from one group to another has been carefully indicated so that there should be no difficulty in following the locomotives through to their final disposition, and, where no disposition is given—either scrapped, retired or sold, the locomotive was in service at the time this material was prepared—Dec. 31, 1944. It is hoped that these notes, together with those of the author that preface each list, will be

carefully observed, they may save you some embarrassment in your search for data. Through the foresight and generosity of the management, three of the early types of locomotives have been preserved. It may be wishful thinking on the part of the Editor, but it is most unfortunate that none of the three were built in the Reading Shops and it seems most unfortunate that one of the few remaining 4-4-0 or 4-4-2

types cannot be preserved for this purpose.

For a few years it was the good fortune of the writer to live in Philadelphia and many a visit was paid to the Reading terminal at Kaighn's Point, Camden. At that time the Atlantic type was in its glory and on Saturday afternoons and Sunday mornings, in the summer time, trains for Atlantic City and Sea Isle City went out in sections. Those "long legged" Atlantics, with their 80", 84½" or 86" drivers, according to class, were of interest to watch for they were travelling much faster than one might suspect and a ride behind them, at any time, was well worth the time and money. Nearly all are gone, now, but they were kept as clean as cotton waste and "elbow grease" would make them and with the sun striking the high points, their outside valve gear together with their clean train strung out behind them, they made an unforgetable sight.

#### **Preface**

This history of Reading locomotives does not pretend to be all-inclusive, in fact, it may be considered the beginning of a comprehensive descriptive history. The object of present research was to make the roster entries as complete and accurate as possible, and for them to serve as a guide and check list suitable for various uses. The brief histories of the three periods of Reading locomotive development, are an evalua-

tion of the roster with added detail.

Other explanations are necessary in order to clearly understand the outline and contents of the roster. First, this list does not attempt to record locomotives that existed on lines before they were absorbed by the Reading, unless the locomotives were placed in the Reading classification. An acquired lines roster is a subject for continued research and the author's notes were considered too incomplete to incorporate now. Thus, some readers will miss such familiar historic locomotives like Old Ironsides, Baldwin construction #1, built for the Philadel-

phia, Germantown & Norristown R. R.

Second, although the rosters have been checked with many records; the list will probably contain some errors. The reader or student of historic locomotive research is cautioned, however, to expect some of the figures given to be at variance with his own information. Unless this printed record is in error, the explanation is, as far as possible the figures that appear are those applying to the locomotive as originally built or emerging from the shops—rebuilt. Minor changes in boiler pressure, weight, cylinders and drivers are not recorded unless the locomotive(s) was rebuilt or underwent some major change. These

variances will be greater, generally speaking, depending upon the age of the locomotive. This rule applies in the 1871-1900 and 1900-1944 group rosters and the numbering of 1871 and 1900 does not influence

these figures.

Third, the term "rebuilt" by the Philadelphia and Reading or the Baldwin Locomotive Works is used in the broadest sense. Thus, the locomotive shown as rebuilt may represent a change ranging from a new boiler, new firebox, addition of superheater units, new valve gear to simply a change in the diameter of the cylinders, either independently or all at the same time.

Fourth, the shop numbers assigned to locomotives built in the Reading Shops between 1845 and November, 1871, are based upon the record of the locomotives built new, according to the Annual Reports. Shop numbers may have been applied to locomotives extensively rebuilt, but this practice is not positively known. If several Reading-built locomotives had been placed in service the same month, their shop numbers are not further out of order than the maximum number of locomotives placed on the railroad that month. Shop numbers are not tentatively assigned to Reading-built locomotives after Nov. 1871, but it is possible to know the approximate number annually constructed and the total to date.

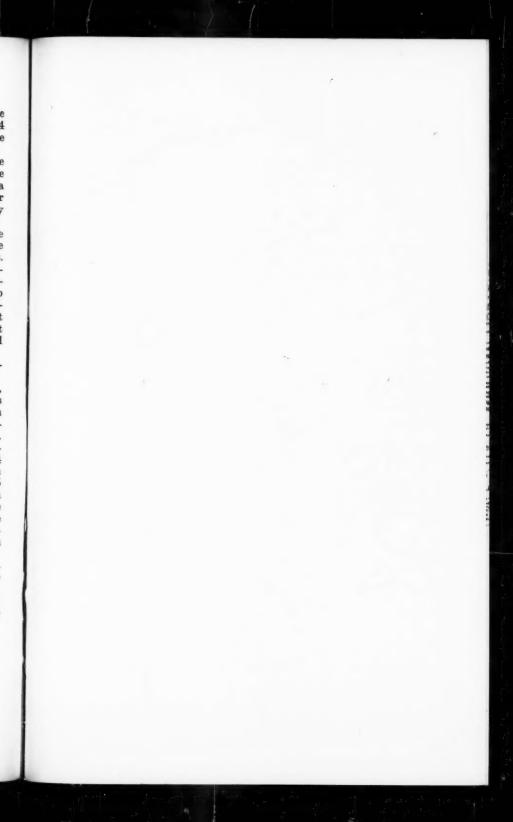
Fifth, this list does not include Multiple-Unit equipment or Gaso-

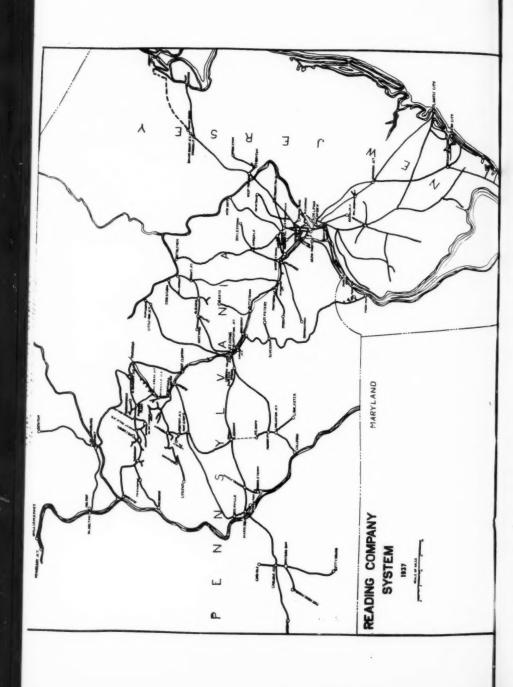
line-Electric cars.

Sixth, the dates used in the title of this bulletin are based upon, first, the year that the Philadelphia and Reading Railroad received its first locomotive. The roster closes as of December 31, 1944, although a number of major developments have since occurred to mark the beginning of the second century of locomotive building at Reading. For the information of the reader, thirty class 1-10, 2-8-0 type locomotives are scheduled for rebuilding at Reading Shops into the 4-8-4 type, T-1 class and will be numbered in the 2100 series. Almost ten so rebuilt are now in service. Another major development during 1945 was the purchase of ten 5400 H. P. Diesel Electric locomotives from the Electro-Motive Corporation, which are numbered 250-259. A large number of small steam units were scrapped or sold during the same year, in addition to changes in drivers on some of the class I-9 locomotives. Details of these changes may be recorded in future chapters of the Reading motive power history.

Finally, some readers and historians will note that a few of the illustrations have already been reproduced many times. The author regrets such repetitions as in the case of the #408, 4-6-0 and #1027, 4-4-2, but he feels that they held such an important place in the development of Reading power that a gap would be presented if their

photographs did not appear.





### Brief History of the Railroad

The Philadelphia and Reading Railroad was organized for the specific purpose of furnishing low cost transportation from the Schuylkill and Mahanoy anthracite fields in Pennsylvania to the eastern seaboard, and in the process, developed into what has proven to be an outstanding example of railroad foresight, management, and efficiency. These coal beds lie north and west of Pottsville, and in this area, a number of railroads served in the development of the Reading System.

The Philadelphia and Reading crosses the central and south-eastern section of the State of Pennsylvania, running slightly from north-west to south-east. The Main Line from Philadelphia to Reading and Pottsville, in itself relatively simple, is complicated by the absorption of many lines, including the laterals of the early days. With one or two exceptions, the merged lines at the western end of the system were of small mileage, and those at the eastern end being relatively larger. In Schuylkill County, no less than twenty-five railroads entered into the

Reading System.

It was the original plan of the founders to build a railroad between Philadelphia and Reading only, and on April 4, 1833, they were incorporated and authorized to build a line from Reading to Philadelphia, or to a point connecting with either the Philadelphia and Columbia or the Philadelphia, Germantown and Norristown railroads. The first plans definitely located the line between Reading and Norristown, the remainder being left in the tentative stage. When the railroad reached Norristown, strong influence was exerted to have the line terminate with the Philadelphia, Germantown and Norristown at that point, and to abandon the proposed construction to Philadelphia. In spite of the pressure, the Board of Managers decided to continue the road in accordance with the original plans, and no connection was made with the Philadelphia, Germantown and Norristown until several years later.

Originally it was planned to connect with the Little Schuylkill Navigation Railroad and Coal Company at Reading, that railroad having been constructed from Tamaqua to Port Clinton, with the intention of extending from Port Clinton to Reading. Such a connection would have been to mutual advantage in the light of the rapidly developing anthracite tonnage originating on the Little Schuylkill Railroad.

On account of financial difficulties, the Little Schuylkill was unable to construct the line to Reading, and the Philadelphia and Reading was faced with the loss of this much desired traffic or the alternative of extending its own line. The second course was chosen, and by an Act of March 31, 1837, the company was authorized to extend its line from Reading to Port Clinton on the route previously granted to the Little Schuylkill Railroad. On March 20, 1838, authority was granted to construct the extension either to Pottsville or to a point of connection with the Mount Carbon Railroad, Mount Carbon, which was the point chosen by the stockholders.

The first passenger train drawn by a locomotive left Reading for Pottstown on May 1, 1838. The line from Reading to Norristown was opened July 16, 1838, and the entire line from Philadelphia to Mount Carbon was placed in operation on January 13, 1842. The Richmond Branch, crossing northern Philadelphia to the wharves on the Delaware

River, was opened May 17th of the same year.

The company was fortunate from its beginning in having a most competent engineering department to lay out and construct its right-of-way, and the topography of its territory was a natural aid in the descending grades, that as a rule, were in the direction of loaded traffic from the mines. The civil engineering of the early development was in the hands of Moncure Robinson, whose work in the construction of the road is a memorial to his skill and competence, especially the construction of the 1932 foot tunnel and stone bridge of four spans, each

seventy-two feet long, near Phoenixville.

Here is a concise statement of the aims of the road that appears in the annual report of the Company, issued in January, 1844, and which contains the report of Richard B. Osborne, Engineer. In this, he says in part: "For seventeen years, previous to the completion of the railway, had its rival, the Schuylkill Canal, carried on successful operations and reaped a rich and abundant harvest in transporting anthracite coal from a region at the head waters of the Schuylkill; even at this period, branch railways were constructed in the Pottsville region, leading from the mines to the canal basins. Here, however, a reshipment of the coal into a boat was necessary, and on its arrival in Philadelphia, after a tedious trip, it had to be discharged upon the wharves, or shipped into coasting vessels, to be conveyed to its destination.

"This state of things, wearisome to the operators, wasteful to the coal, and productive of high prices to the consumers, suggested the idea of having a continuous rail-way, by which the cars loaded at the mines, could pass directly to the tidewaters of the Delaware, and deposit their coal, by means of movable chutes, into vessels of a heavier tonnage

than the Schuvlkill River could accommodate."

Thus, when completed, the Reading became the first complete rail link between the anthracite fields of Pennsylvania and tidewater.

The tendency of the Philadelphia and Reading to extend its lines did not end with the absorption of the lateral roads, which had been sought as feeders to the ever growing hard coal traffic, and the growth of the system continued until the close of the century. To give some idea of the number of lines acquired by the Philadelphia & Reading, by lease, control, or ownership; below are listed the principal lines becoming a part of the system. This list does not include short time control, or small lines merged with some of the railroads listed.

rstde tiecsfih nhsi-in, eeete l sanay

	Acquired	1860	1884	1928	1890	1872	1899	1875	1850	1870		1879	1863	1869	1891		1871	1858	1863	1871	1875	1890	1861	1873	1864	1862	1861	1908	1892	1907	1879		1857	1879	1892		1867	1875	1033
	Locos.	0	35	3	9	20	0	0	0	0		7	0	14	3	0	0	0	12	0	0	0	0	0	30	0	0	7	0	0	0	0		99	14	•	0	00	>
	Miles	4.5	170.1	19.4	31.7	92.6	57.0	3.7	3.5	12.8		27.0	10.7	35.7	41.6	4.5	42.2	54.0	28.2		0.8	6.55	3.8	1.7	52.8	5.2	2.5	80.	1.2	9.3	25.6	4.1		88.0	94.0	5.5	23.8	20.2	(.12
able	To	Topton	S&E lersev	Benton	Alburtis, etc.	Williamsport	Silvernails, N. Y.	Marcus Hook	Belmont	Mt. Pleasant	Bound Brook, N. I.	and Trenton. N. I.	Buck Mt. (MVRR)	Allentown	Carlisle	Gray's Ferry	Tremont-Brookside	Harrisburg	Tamaqua-Tamanend		See Note	Hummelstown	Broad Mountain	Across Sch. River	See Note	Pottsville, etc.	Port Carbon	Natalie	Olney	Neshaminy Falls	New Hope	Phila.	Broad & Vine	Bethlehem	Campbell Hall, N. Y.	Minersville	Emanus Jct.	Chester	DOWILLISTOIL
	From	Kutztown	Camden, N. I.	Bloomsburg	Catasauqua	Tamanend-Tamaqua	Campbell Hall, N. Y.	Chester	Broad & Vine Sts.	Pottstown	Delaware River, N. I.		East Mah. Jct. LSNR	Reading	Gettysburg	Belmont	Lebanon	Reading	Port Clinton		In Harrisburg	Middletown	Mill Creek	Leesport	Mine Hill	_	Mt. Carbon	Mt. Carmel	Tabor Branch	Cheltenham	Glenside	Phila.	Front & Willow	Philadelphia	Slatington	Pottsville	Perkiomen Jct.	Gray's Ferry Bridgenort	Dingeboir
	Railroad	Allentown	Atlantic City	Bloomsburg & Sullivan	Catasauqua & Fogelsville	Catawissa	Central New England Ry.	Chester & Delaware River	City Branch-Phila.	Colebrookdale	Delaware & Bound Brook		East Mahanoy	East Pennsylvania	Gettysburg & Harrisburg	Junction	Lebanon & Tremont	Lebanon Valley	Little SchuylkillN&RR	Mahanoy & Shamokin	Manufacturer's R. R.	Middletown & Hummelstown	Mill Creek & Mine Hill	Moselem Branch	Mine Hill & Schuylkill H'n.	Mount Carbon	Mount Carbon & Pt. Carbon	Mount Carmel	Newtown Connecting	New York Short Line	North East Pennsylvania	Northern Liberties &	Penn Township	North Pennsylvania	Pa. Po'keepsie & Boston	People's Kailway	Perkiomen Pt.:1- 6 Ct.	Phila & Chester Valley	I lilla, a Circott valley

Table 1 (Continued)

Acquired 1893 1833 1893	1870	1890 1879 1872	1872 1890 1874	1902	1883	1883 1883 1861	1883 1879 1873	1898 g them	1 1904,
Locos. A	23	-00	000	00	n.C	000	000-	28 ice for including	shown here. In
Miles 2.5 94.0 1.2	33.7	45.4 22.1 11.3	21.1 39.5	7.7	47.6	17.05	32.1	90.4 90.4 o lack of spa	ter than is
To Frankford Mt. Carbon (P'ville.) 9th St. PG&N	GmtnNorristown	Lurgan Newtown Byers	Port Kennedy Port Reading, N. J. Lancaster	Around Reading	East Run Jct. Rockville	B. & O. Connection B. & O. Connection Tuscarora	West Milton Tabor Jct. West Reading	mington & Northern Wilmington, Del. Reading 90.4 28  Reading 90.4 28  Reading 10.4 28	including its leased lines, the mileage was greater than is shown here. In 1904,
From Crescentville Philadelphia 12th & Market	Philadelphia	Harrisburg Philadelphia Phoenixville	Main Line Bound Brook, N. J. Sinking Spring	Belt Line Jct.	Cumru Jct. Auburn	In Philadelphia In Philadelphia Palo Alto	Shamokin Wayne Jct. Reading	brookside Wilmington, Del. foregoing table, the fol	Including its lease
Railroad Phila. & Frankford Phila. & Reading P&R Terminal R. R.	Phila. Germantown and Norristown Dhila Ugreichter	Pittsburg Phila Newtown & N. Y. Pickering Valley	Port Kennedy Port Reading Reading & Columbia	Reading Belt Line	Schuylkill & Lehigh Schuylkill & Susquehanna	Sch. River East Side R. R. Sch. River West Side R. R. Sch. Valley Nav. & R. R. Sch. Valley Nav. & R. R.	Tabor Branch West Reading	Wilmington & Northern  In connection with the	Central New England Ry.

control passed to the New Haven. Sold to the P. R. R., in 1898.

This line, 0.8 miles long, in the City of Harrisburg, was purchased with the intention of extending it to Rockville. This was never done and the Reading continues to have trackage rights over the P. R. R. between these two points, using the M. R. R. as a freight line.

M. K. K. as a freight line. From Westwood, north through Mine From Schuylkill Haven west to Tremont. From Westwood, north through Mine Hill to Glen Carbon and Gordon. The line from Glen Carbon to Gordon, which included the Gordon Planes, was abandoned in 1896. The road also extended east from Gordon to Ashland, and west of Gordon with many branch lines.

Mine Hill & Schuylkill Haven.

Junction Railroad. Manufacturer's R. R. Because of the complicated structure of the Atlantic City Railroad lines, the formation of that system can more readily be written than shown in a table of limited size. The Atlantic City Railroad was the consolidation, on June 14th, 1901, of the erstwhile Atlantic City Railroad, Seacoast Railroad, Ocean City Railroad and Camden County Railroad.

On March 29th, 1889, the following five railroads were merged to

form the first Atlantic City Railroad, viz:-

Philadelphia & Atlantic City R. R., incorporated Dec. 4, 1883, to take over the Philadelphia & Atlantic City Railway Co., which had been incorporated March 24, 1876. Camden to Atlantic

City, 58.35 miles.

Williamstown & Delaware River, incorporated Dec. 7, 1883, to take over the Williamstown Railroad, which had been incorporated March 13, 1861. The W. & D. R. extended from west from Williamstown to Glassboro and Mullica Hill, and east from Williamstown to Atco, 22.30 miles.

Glassboro Railroad, incorporated October 16, 1883, Glassboro to

Temperanceville, 0.34 miles.

Camden, Gloucester & Mt. Ephraim, incorporated June 17, 1873, Camden to Mt. Ephraim, 3.86 miles.

Kaighn's Point Terminal R. R., incorporated March 8, 1888, in Camden N. J., 1.00 mile.

These five roads formed the Atlantic City Railroad which took part in the merger of June 14, 1901, mentioned above. Of the other three in the 1901 merger, the Camden County R. R. was incorporated Sept. 17, 1889, extending from Mt. Ephraim to Greenloch, 7 miles, and the Ocean City Railroad, incorporated June 8, 1896, Ocean City Jet. to Ocean City, 10.16 miles.

The history of the Sea Coast R. R. is somewhat more complex. The Philadelphia & Sea Shore was incorporated Nov. 12, 1889. This road was sold at foreclosure Feb. 23, 1892, and conveyed in three sections as

follows:

1. To the Winslow & Richland R. R., Winslow Jet to Richland.

2. To the Richland & Petersburg R. R., Richland to Seaville.

3. To the Petersburg & Sea Isle R. R., Seaville to Sea Isle City.

These three roads were consolidated to form the South Jersey R.

R., on August 16, 1893.

On June 11, 1894, the South Jersey acquired by consolidation the Cape May R. R., incorporated March 19, 1894, which in turn was successor to the Tuckahoe & Cape May R. R., incorporated Feb. 4, 1890, to operate between Tuckahoe and Cape May, 26.80 miles. The South Jersey R. R. was sold at foreclosure March 29, 1898, and was conveyed to the Sea Coast R. R., whose date of incorporation was May 16, 1898.

In 1933, the Atlantic City Railroad was segregated from the Reading System to become part of the Pennsylvania-Reading Seashore Lines. This company was formed to eliminate the wasteful competition between

the Reading and Pennsylvania companies, in the service between Camden and the Atlantic Coast Summer resorts. The P. R. S. L. are operated jointly by the two roads, by each in alternate months. Actually the P-R Seashore Lines are the Atlantic City Railroad, which was formed in 1901, less some abandonments, plus some of the lines of the P. R. R. The new name was adopted July 15th, 1933.

(Subsequent to the formation of the Atlantic City R. R., in 1901, the system acquired three small "resort lines," viz: Wildwood & Delaware Bay Short Line, the Cape May, Delaware Bay & Sewell's Point

and the Stone Harbor Railroads.)

In addition to acquiring railroads serving seashore resorts in New Jersey, it was just about fifty years ago that the Philadelphia and Reading aspired to expand beyond the State of Pennsylvania through its ownership of the Central Railroad of New Jersey, its leasing of the Lehigh Valley, its ownership of the Pennsylvania, Poughkeepsie and Boston, and control of the Boston and Maine. With the bursting of this financial "bubble," these properties were given up, and the Reading returned to its status of a major coal carrier, mostly within the confines of the state of its founding.

The Reading too, along with other anthracite roads owning coal properties, was forced by Court Decree, to segregate ownership and operations now conducted by the Philadelphia and Reading Coal and Iron

Company, beginning in 1923.

'Reading Company was incorporated on May 24, 1871, as Excelsior Enterprise Company. In 1873 the name of the Company was changed to National Company and by Decree of the Court of Common Pleas, Philadelphia, Pennsylvania, entered December 7, 1896, the name was again changed to Reading Company.

"On October 1, 1923, Reading Company entered into an agreement

with:

Philadelphia & Reading Railway Company

The Chester and Delaware River Railroad Company Middletown and Hummelstown Railroad Company

The Rupert & Bloomsburg Railroad Company

The Tamaqua, Hazelton & Northern Railroad Company

The Norristown Junction Railroad Company The Philadelphia & Frankford Railroad Company

The Philadelphia, Harrisburg & Pittsburgh Railroad Company The Schuylkill & Lehigh Railroad Company

Shamokin, Sunbury & Lewisburg Railroad Company

New York Short Line Railroad

Norristown & Main Line Connecting Railroad Company and Reading Belt Railroad

for the merger of the several companies into Reading Company. Through this merger Reading Company became the operating Company and assumed operations January 1, 1924.

"Construction work was started early in 1929 on electrification of suburban lines from Philadelphia to Doylestown, Hatboro, West Trenton and Chestnut Hill. Electric train service from Philadelphia to West Trenton, Hatboro and Doylestown was inaugurated on July 26, 1931. In 1931, electrification of the line to Norristown was begun, and on February 5, 1933, electric train service to that point and to Chestnut Hill was commenced. Total electrified first track mileage is 84.07."\*

On December 31, 1944, Reading Company owned, leased, operated and jointly controlled 6134.76 miles of track, including sidings, etc., and

on the same date they owned the following equipment:

Loeomotives	694
Passenger train cars	787
Freight train cars3	4549
Floating equipment	66
Work equipment	390

<sup>\*</sup>From "A Century of Reading Company Motive Power," Pages 107 and 108.

#### Bibliography and Acknowledgements

The data recorded in this history has been collected from a number of sources, and it is from a combination of these sources, that the present record is made possible. The chief sources of material are: The annual reports of the railroad company that from 1844 to 1880 contain a complete roster of locomotives dated November 30th, the close of the fiscal year. Company records, mainly diagram books and "engine cards" have furnished the bulk of information from 1880 to the present. The records of the Baldwin Locomotive Works have been invaluable because of the large number of locomotives purchased from that firm beginning in 1836. Local newspapers have recorded a number of unusual speed runs. The annual reports of small lines eventually absorbed by the Reading, have helped identify locomotives placed on the large system roster. Photographs from the official company files, from railroad families, or fans have identified many details.

The Reading's excellent publication "A Century of Reading Company Motive Power" (1941), and the bulletins of the Railway and Locomotive Historical Society have been consulted. Some repetition of printed matter has been the result, but it was necessary to refer to these sources for authentic information and to repeat some of the facts that

should not be omitted.

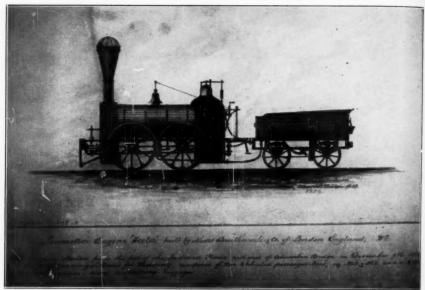
The author is indebted to many persons, either as individuals or those having connections with firms or institutions, for their interest and patience when he has asked for assistance. The cooperation of the Reading Company has been extended. Irvin L. Gordon, Publicity Manager, and one of his former assistants, Robert E. Osterhout; Jay V. Hare, Secretary and Treasurer; and J. W. Barr at Reading Shops; together, without their assistance, this record would have been impossible. The Baldwin Locomotive Works and the attention given by their Librarian, Paul T. Warner, has permitted a complete list of Baldwin built locomotives and construction numbers to be made for the Reading. The American Locomotive Company also assisted in addition to a number of historical societies, particularly the Historical Society of Pennsylvania at Philadelphia, and the Bucks County Historical Society, located at Doylestown, Pennsylvania.

Individually, F. Stewart Graham has spent countless hours checking available figures in addition to searching for and outlining much of the material contained in the text. Charles E. Fisher, on behalf of the Railway & Locomotive Historical Society, and editor of this bulletin, has kindly arranged to publish the material. Charles B. Chaney, Walter A. Lucas, John G. Smith, Jr., Thomas Norrell, W. R. Osborne, C. R. Weaver, and the late Karl E. Schlachter, have furnished photographs and data from their private collections. Frank C. Hoffman has accompanied the author on many trips to observe present day train operation. And lastly, but far from the least, the author thanks the many roundhouse foremen and railroad men, retired or working, for sharing

their comments and experiences.

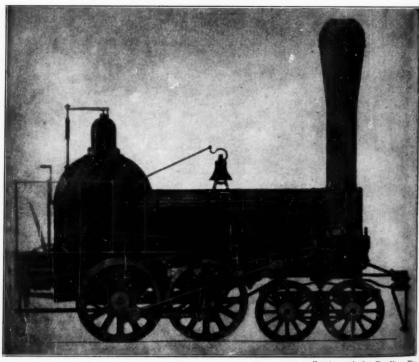
GEORGE M. HART.

George School, Pennsylvania Jan. 1, 1945.



—Courtesy of the Historical Society of Pennsylvania.

P. & R. "Hecla"—Braithwaite & Co., England, 1839.



—Courtesy of the Reading Co. P. & R. "Gowan and Marx"—Eastwick & Harrison, 1839.

# HINTER THE FIRE PURE THE GIM I INCHINE !!

#### READING LOCOMOTIVES 1836-1871

The Philadelphia and Reading Railroad with its Main Line, having been founded and constructed during the early era of the steam locomotive, was in a position to have an important share in its development. The men of the mechanical department were among the best engineers of their time, and there have been few periods in the road's history, when an item of its motive power has not been of unusual interest.

Some of the experiments made were highly successful and others resulted in failure, but most of them contributed to the development of the Iron Horse. A number of accepted standard locomotive practices originated on the Reading, many of which developed from the road's determination and experience to use anthracite for fuel. Several of these experiments were conducted without prior experience or knowledge, and what success was achieved, was the result of persistent and resourceful trial and error methods.

Many of the first Reading locomotives were imported from Great Britain, due to the fact the road was heavily invested by British capital. Eight locomotives built by Braithwaite, Milner and Company, London, were placed in service from 1838 to 1841, and all were of the 0-4-0 type weighing approximately eight tons. Their names were Rocket, Firefly, Spitfire, Planet, Dragon, Comet, Hecla and Gem. It is interesting to note that the Hecla and Gem were the last of the early locomotives imported from Britain by any American railroad. In spite of the time that they were built and operated, their service record is remarkable, while they remained in substantially their original form.

The history of this group is shown in the appended rosters, but of special interest is the *Rocket*, used until March, 1879 and running 310,-164 miles. It was then stored at Reading and exposed to the weather until 1892, when it was resurrected for exhibition purposes at the World's Fair in Chicago in 1893. The *Rocket* was also exhibited at the Saint Louis Exposition in 1904, and was afterward on display at the Columbia Avenue Passenger Station, Philadelphia. In 1933 it became a part of the permanent exhibit at The Franklin Institute, Philadelphia, and is one of three old Reading locomotives in existence, anywhere. The *Spitfire* was sold to the Leggett's Gap Railroad (now a part of the Delaware, Lackawanna and Western) in 1851, used in construction and roadway service, and resold to the Spencer Coal Company of Dunmore, Pennsylvania, in 1859. It was dismantled during the 1880's. At least five of the eight locomotives are known to have been in service during the middle 1860's.

The Annual Report for 1844 records that there were fifty-five locomotives on the road, with the following number from each builder:

Baldwin	19
Locks & Canals Co	
New Castle Mfg. Co.	6
Braithwaite, Milner & Co.	6
Norris-Philadelphia	4
Eastwick & Harrison	3
Rebuilt by P. & R.	2
Dotterer & Co., Reading	1
Ross Winans	
Not stated	2

By 1854 the list had grown to 141, with 47 built by Ross Winans, 34 by Baldwin, 30 built and 13 rebuilt by the company, and one each from the Boston Locomotive Works; Davenport, Bridges and Kirk; Danforth, Cooke and Company; and Taunton. Although the Winans' locomotives were in the majority, the record in later years is clear that the Reading relied upon their own shops and Baldwin's for motive power. The railroad itself tried to maintain the position of meeting its own requirements, but there were times when the demand for new locomotives, plus repairing or rebuilding of existing ones, taxed the capacity of the shops to the extent that it was necessary to order locomotives from the nearby Baldwin plant in Philadelphia.

The first locomotive to be received by the Philadelphia and Reading was the Baldwin built Neversink, shop number 40, a 4-2-0, finished in August, 1836. The Braithwaite locomotives followed. But to the Gowan & Marx, built by Eastwick and Harrison, fell the honor of hauling the first train between Reading and Philadelphia, on December 5, 1839. The train was of 80 cars, with a gross weight of 368 tons, and

the trip required nine hours.

In the summer of 1839, the Philadelphia and Reading had placed an order with Eastwick and Harrison for what became the famous Gowan & Marx, the first of a series of Philadelphia and Reading locomotives to attract the attention of the railroad and mechanical world. Although it was not the first 4-4-0 type, it was a remarkably successful engine for its time. This locomotive was designed for freight service. and weighed eleven tons, with nine tons on the drivers. This unusual distribution of weight was made possible by placing the driving wheels close together, with the rear axle under the firebox, and also using a comparatively short boiler barrel. The firebox, arranged for burning anthracite, was of the Bury or "haystack" pattern, about five feet long outside. The cylinders were placed on an angle, with pistons connected to the rear drivers. The Eastwick reversing mechanism was applied. This was the first locomotive to be equipped with a blower. The exhaust steam was discharged into two copper chests, one connected with each cylinder, and from these chests it escaped up the stack through a number of small tubes. This device was reported to have kept the anthracite fire "in a state of intense activity and generates an abundance of steam."

The equalizers used on the Gowan & Marx consisted of heavy east iron beams placed above the frames, one on each side, with their ends bearing on round vertical pins that rested on the tops of the driving boxes. From the center of each beam was supended a half-elliptic spring which supported the main frame. This arrangement is shown on all known Eastwick and Harrison locomotive drawings up to 1842.

On one of its first trips over the road, made February 20, 1840, the Gowan & Marx amazed the railroad world by hauling a train of 104 loaded four-wheel cars, weighing 423 tons, from Reading to Philadelphia, at an average speed of 9.82 miles per hour. Including the weight of the locomotive and tender, the weight of the train equalled forty times that of the locomotive. The line was level or slightly descending. with only one opposing grade, which was 2100 feet long, rising at the rate of 26.4 feet to the mile. In a report prepared by G. A. Nicolls, Superintendent of Transportation of the railroad company, under date of February 24, 1840, the locomotive was stated to have consumed 5600 pounds of red ash anthracite, while evaporating 2774 pounds of water. This represented an actual evaporation of 4.13 pounds of water per pound of fuel. In the same report it was stated that the Gowan & Marx had cylinders measuring 123/x16 inches, and driving wheels 40 inches in diameter. These figures differ somewhat from those usually given in the descriptions of the locomotive. G. A. Nicolls gave the weight of the locomotive as 24,660 pounds with 18,260 pounds on drivers, and stated that "the steam ranged from 80 pounds to 130 pounds per square inch, to which latter pressure the safety valve was screwed down." Assuming a mean effective pressure equal to 85% of 1.3 pounds, the ratio of adhesion would have been approximately 2.5. As the locomotive worked with a fixed cut-off, this certainly indicates that the engine operated with a light throttle if the higher pressure was actually attained. Even when carrying a pressure of only 80 pounds, the ratio of adhesion was only 3.42. These figures are of course approximate, as the actual mean effective pressure cannot be determined.\*

It is interesting to compare the performance of the Gowan & Marx with that of the Baldwin 4-2-0 type locomotive Neversink, the first locomotive built for the Philadelphia and Reading. On March 12, 1839, the Neversink hauled a train of 45 cars, weighing 223 tons, from Reading to Bridgeport, a distance of 40 miles, at an average speed of 12¾ miles per hour. The Neversink had cylinders 10½x16 inches and driving wheels 54 inches in diameter; and the steam pressure on the run was stated by Mr. Nicolls as varying between 80 and 120 pounds. Wood was used for fuel, and the performance was rightly judged to have been highly creditable. The tests with the Gowan & Marx, however, proved the advantages of using coupled driving wheels, although a run made later by a single driver locomotive, as will be noted, was most

unusual.

The Hichens & Harrison was a Baldwin 4-2-0 type locomotive later renamed Seminole. This locomotive on February 9, 1841, broke its own

<sup>\*</sup>Information from "The 4-4-0 (American) Type of Locomotive"—Paul T. Warner—Bulletin #35, Page 14.

record and that formerly held by the Gowan & Marx, by taking 105 loaded cars over the 54½ miles between Reading and the junction of the Philadelphia and Columbia Railroad. In addition to other freight, this train carried 1318 barrels of flour, 870 kegs of nails and spikes, 635 bushels of grain, 63 long tons of bloom and bar iron, 20 cords of wood, and eight casks of oil. The total weight of the train was 481½ long tons of which 308½ was the weight of the freight and 173 of the cars. All cars were four-wheeled and the wheels were 36 inches in diameter. Lard and tallow was used in the journals. The total length of the train was 1260 feet and its average speed for the run was 11.1 miles per hour. On this trip, the locomotive used 2.51 cords of wood, 1804 gallons of water, and seven quarts of oil. The train was believed to be the longest and heaviest ever hauled by a single locomotive in the United States or Great Britain, according to the Railway Journal of 1841.

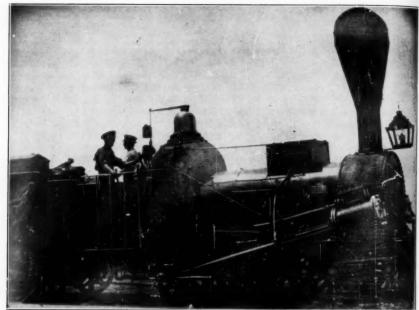
So successful was the Gowan & Marx that twelve of the same type were ordered, not from Eastwick and Harrison, but from Locks and Canals Company, of Lowell, Massachusetts, on the same general plans. They were ordered in 1842, and delivered a year later. According to records furnished by the railroad company, one of these locomotives eventually became Number 3 on the People's Railway extending from Pottsville to Minersville, sometime after 1871. On this line it had for years been unused, but was "discovered" in a storage shed at Pottsville about 1923. The Reading was interested to preserve the locomotive and has since placed it in The Franklin Institute, Philadelphia, where

it is one of the two Reading locomotives on exhibition.

The wheelbase of the People's Railway Number 3 at The Franklin Institute is considerably longer than that of the Gowan & Marx, and because of other features of its construction, it may be questioned whether it is a Locks and Canals or an Eastwick and Harrison locomotive. A recently "discovered" photograph, furthermore, possesses strong evidence that People's Railway #3 was built by Eastwick and Harrison and is not one of the copies of the "Gowan & Marx" built

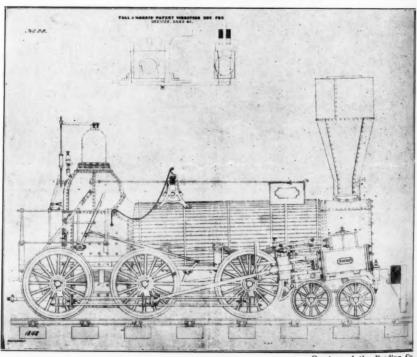
at Lowell.

Although it was some years before Matthias Baldwin yielded to adopting the 4-4-0 type, the next Philadelphia and Reading locomotives attracting attention were thirteen built by him in 1844-45. of the 0-6-0 type and were equipped with Baldwin's flexible beam truck, which is described in Baldwin Locomotives (April, 1923) in the following words: "The first and second pair of wheels were held in place by a pair of vibrating beams, which, while holding the axles parallel to each other, allowed them to move laterally across the track, one to the right, the other to the left, or visa versa. The entire weight was thus available for adhesion, while at the same time the locomotive could easily traverse sharp curves." This feature was also applied to the first 0-8-0 type locomotives on the Reading, of which, seventeen were placed in service in 1846. The Atlas and Hercules were larger than the other fifteen and were especially built for pusher service on Falls Grade on the Richmond Branch, the only heavy southbound opposing grade from the anthracite fields to tidewater. These two locomotives are said to have been the first to have sand boxes and engine cabs on the Reading.



-Courtesy of Thomas Norrell.

P. & R. "Outalaunee"-Newcastle Mfg. Co., 1843.



P. & R. "Chesapeake"-Norris Bros., 1847.

-Courtesy of the Reading Co.

In the following year (1847) a new type locomotive was designed by Septimus Norris, and built by Norris Brothers, Philadelphia, who began to feel the pinch of competition from Baldwin by the success of his flexible beam truck. This locomotive, the *Chesapeake*, was probably the first of the now common "ten-wheelers" on any American railroad. The cylinders were 141/2 by 22 inches and the driving wheels 46 inches in diameter. The locomotive was rated as weighing 20 long tons, or about 44,000 pounds. It had a "haystack" boiler, with a large dome over the firebox. Wood was used for fuel. The cylinders were inclined and the main rods were connected to the second pair of drivers. The front and back side rods were entirely independent of each other, the main rod taking hold of a third bearing on the pin, between the two side bearings. These side rods were of the open type, each being formed of two rods which were spaced apart vertically so that the crank pin brasses could be placed between them. Nuts on the ends of the rods bore against keepers which held the brasses in place. The first and second pairs of drivers had plain tires without flanges, and the leading truck had a short wheel base and swivelled about a center pin, but carried very little weight. Accounts differ as to the actual service rendered by the locomotive, but it was evidently found desirable to place more weight on the truck.\* According to the Annual Reports of the railroad company, the locomotive was partially rebuilt in 1849, and to November 30th of that year, had run 38,750 miles in the "coal trade." It was again rebuilt into almost an entirely new locomotive in June, 1861, and apparently was the only "ten-wheeler" on the Reading until the coming of the Millholland "Gun-boat" Nevada in 1863.

So far this account has neglected to mention locomotives built at the Reading Shops, at Reading, Pennsylvania. Lewis Kirk was appointed master of machinery on October 1, 1843, and he may be considered the father of locomotive building at Reading. It was he who began the practice of rebuilding locomotives, and in 1845 the tiny Picayune of his design, a 2-2-0 with 4x8 inch cylinders, used by officers of the road, emerged as the first locomotive built at Reading. In 1846 another inspection locomotive was built, the first Ariel, and in 1847, a road engine, the Palo Alto, made its appearance. The first passenger locomotives built at the Reading Shops were the Buena Vista and Vera Cruz in 1848, the same year that Lewis Kirk resigned, with twelve

Reading built locomotives to his credit.

Kirk's locomotives did not receive notoriety except the Novelty built in June, 1847, on the theory that the successful burning of anthracite required an exceptionally large firebox. This principle was carried to such extremes, that in this case it was necessary to mount the boiler proper on one vehicle and the operating machinery on another, the steam passing from the main boiler to the auxilliary boiler (or accumulator) through jointed pipes and thence to the cylinders. The design included a condensing system and a forced draft blower, but in spite of these contrivances, the locomotive possessed many faults, the

<sup>\*</sup>Information from "History of the 4-6-0 (Ten-wheeled) Type Locomotive"—Paul T. Warner—R. & L. H. S. Bulletin #64, Page 8.

chief one being lack of adhesion. All of the special features of the design were patented. Although a courageous experiment, it was a complete failure except to prove that it was not practical. The locomotive was withdrawn from the railroad in 1849. The real monument to Lewis Kirk, however, was a silver cup presented to him by employees of the shop when he withdrew from the service of the Reading.

The problem of using anthracite as fuel in locomotives was still an unsettled question in the middle 1840's, but there was at least one person who was making strides. He was Ross Winans of Baltimore, Maryland. He had been building locomotives for more than ten years and in 1847, the Philadelphia and Reading purchased four of the 0-8-0 type, with fireboxes suitable for burning anthracite. There is little doubt that these locomotives proved more than satisfactory for the Reading paid Winans a bonus of \$500.00 per locomotive on the order. Furthermore, forty-three additional 0-8-0's were purchased from Winans between 1850 and 1855. The success of this group is also partly due to James Millholland's application of a water space in the rear of the firebox, and the installation of water tube grates. This latter feature was Millholland's first experiment in burning anthracite, and marked the beginning of his distinguished career in the field.

The Winans' locomotives were called "Camels" because of the location of the cab covering the top of the boiler. They were of entirely different design from the Wootten beiler locomotives with the cab placed ahead of the firebox, and constructed years later. There is however, the possibility that the reference re-originated when the middle cab locomotives made their appearance. A striking feature about the Winans' locomotives was the use of two "firing chutes" through the top of the firebox that made it possible to spread coal to all parts of the grate

area.

If there was one person who designed a locomotive that could be called "typically Reading," it was James Millholland, who succeeded Lewis Kirk in 1848. Although there is much to say for John E. Wootten's famous culm-burning firebox and boiler, it was Millholland who laid the foundation for the practical possibility of Wootten's patent. The effects of Millholland's designs with their various earmarks, are on the record, and still common at the turn of the century by the presence of many of his locomotives. Millholland's designs however, were not so universal as those of Wootten's, but there was no other one person on the Reading, or on few other railroads of equal size, whose talents were so closely confined and identified with the motive power.

After Milholland had found his footing, the first group of locomotives designed by him, were built at Reading Shops in 1852. These were the 2-6-0 type Pawnee class. They were not true moguls, however, because the leading wheels were placed back of the cylinders and were held rigidly to the main frames. The boiler had an overhanging firebox, with a short intermediate combustion chamber, thus necessitating the use of two groups of tubes. In design and workmanship these locomotives represented the best practice of the day, but they were poor steamers. Milholland at this time followed many ideas of the period and had an assortment of gadgets for improving the draft and firing

anthracite, but all did not prove very practicable or reliable on the seventeen locomotives of the Pawnee class.

Concurrently with the construction of the *Pawnee* class, Millholland was building two 4-4-0 type passenger locomotives named *Michigan* and *Illinois*. These had forged iron driving wheels seven feet in diameter and an unusual arrangement of Stephenson link motion, driven from a double return erank and placed outside the rods. This was one of the

first applications of an outside motion.

In 1857, a rebuilt locomotive, Vera Cruz, emerged from the shops with the firebox placed above the level of the engine bed and which, according to Angus Sinclair, was the first to be so constructed. the Michigan, Illinois and Vera Cruz paved the way for the first standard class built by the Reading, namely the Hiawatha and Minnehaha in They were exceptionally well designed, for passenger service. The firebox was placed above the frames and extended back over the rear driving axle to provide a grate area of 24.5 square feet. The boiler of the Hiawatha class had two domes, the steam supply being drawn from both and controlled by a balanced throttle valve placed in the front The cylinders were securely bolted together and also to the frames, and provided a flat bed on which the smokebox rested. Other features including underhung springs, and an excellent design for shifting link motion. This class, although slightly modified in 1867, was built in large numbers (a total of 44) until the advent of the first 4-4-0 with a Wootten boiler in 1878.

An equally successful standard class developed by James Millholland was a group of "ten-wheelers" for freight service, called "Gunboats." The first was the Nevada built at Reading in March, 1863. Most of this group were built at Reading; however, some were supplied by the firms of Norris at Lancaster, and also by Baldwin. The first group with drivers 46 inches in diameter; of which 82 were built at Reading, 19 by Norris, and 10 by Baldwin, were received until 1873. In that year a similar group, but having drivers 54 inches in diameter, were built at Reading, and 33 were made from 1873 to 1877. Together these "ten-wheelers" were the mainstay of the freight power on the Reading until the advent of the Consolidations in 1880. A number were later rebuilt and the last remained, as rebuilt, on the roster as late as 1925.

The third standard class to originate prior to Millholland's retirement in 1866 was the Kentucky or "Centipede" class. They were of the 0-10-0 type especially designed for pushing service on Falls Grade and the heavy grades on the Mahanoy and Shamokin Branch. Seven were built at Reading from 1864 to 1872. The Kentucky class was developed from the 0-12-0 Pennsylvania built in 1863, also for service on Falls Grade. The main rod was connected to the number four drivers. One pair of driving wheels was removed when the locomotive was rebuilt seven years later. Water was carried in two side tanks, and in another placed on the top of the firebox. No space was provided for coal, as firing was done at each end of the short, one mile, trip.

The three standard Reading classes of the period, the *Hiawatha*, *Ten-Wheel*, and *Kentucky*, and later the 0-4-0, 0-6-0 and 0-8-0 types standardized in 1866 and 1869, respectively, bear the unmistakable ear-

marks of Millholland's design. Many had rounded iron cabs; while the stacks, the round guide bars with passed through longitudinal openings in the crossbars, the flattening of the sides of the cylinders, and the smokeboxes with a flat base resting on the cylinder castings, were all very typical. But most important historically was the standardization of equipment, at so early a date, developed along with the heavy repairs and new locomotives built at the one central shop, at Reading. Thus the Philadelphia and Reading roster was not affected by the individual practices at many division shops and sundry Master Mechanics. The Reading was fortunate to acquire only a moderate number of locomotives from acquired lines, and to have James Millholland as master of machinery from 1848 to 1866. The result was that toward standardization of motive power, the Reading was far in advance of the great majority of railroads.

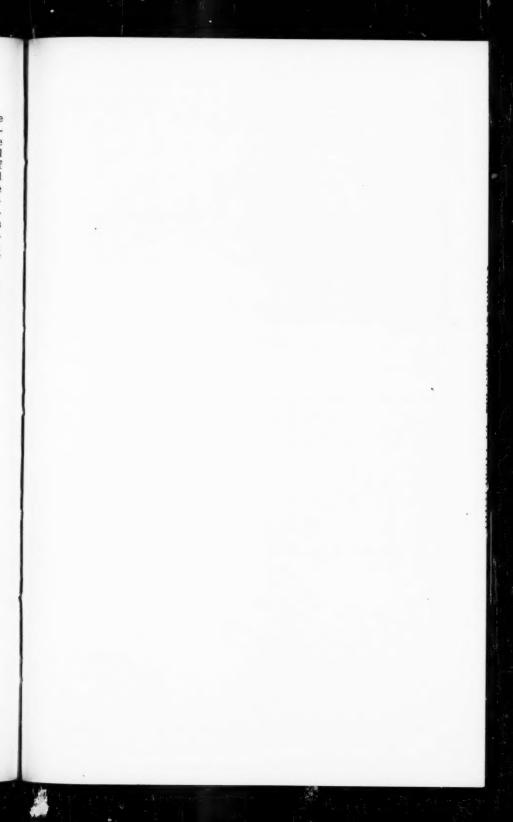
When numbers were substituted for names in December, 1871, the Reading had well over 300 locomotives. It was unusual that the names of presidents, directors, or other officials were used—practically all of the locomotives named for individuals were from acquired lines. One can imagine the relief that was felt by the name selector, the train dispatcher, and other record keepers, when names were discontinued. Indeed, it was a time of railroad expansion, and numbers were a far easier code to use when the locomotive became common.

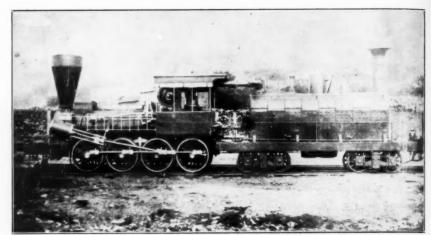
# Locomotives Built (new) at Reading Shops, Reading, Pa., to 1871 inclusive

1845 - 1	1854— 2 1863—16
1846 - 1	1855— 2 1864—12
1847 - 4	1856— 1 1865—19
1848 - 6	1857— 1 1866— 7
1849 - 0	1858— 0 1867— 9
1850 - 0	1859-2 $1868-7$
1851 - 1	1860— 1 1869—12
1852 - 8	1861— 0 1870—16
1853 - 7	1862— 3 To Dec. 1 1871—18
	Total—156 locomotives.

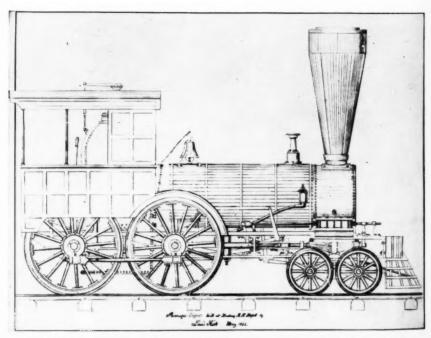
The locomotives included in the list from 1836 to 1871 are arranged according to their date of first running on the Philadelphia and Reading, either as new or acquired locomotives from various sources. The disposition of the locomotive is noted, and those remaining when the numbering system was inaugurated and names abolished in December, 1871, are shown with their assigned numbers at the extreme left. As numbered locomotives, their history follows on the 1871-1900 list. Save for a few Inspection and company service locomotives, numbers were substituted for names in all cases.

From 1864 to 1871, twenty-seven Mine Hill and Schuylkill Haven locomotives were not named, but continued to carry their home road numbers. They were first classified by the Philadelphia and Reading when their number system was put into effect, December, 1871.





—Courtesy of W. A. Lucas. P. & R. "Novelty"—Reading Shops, 1847.



One of the first passenger locomotives built at Reading Shops, probably the "Cerro Gordon"—1848.

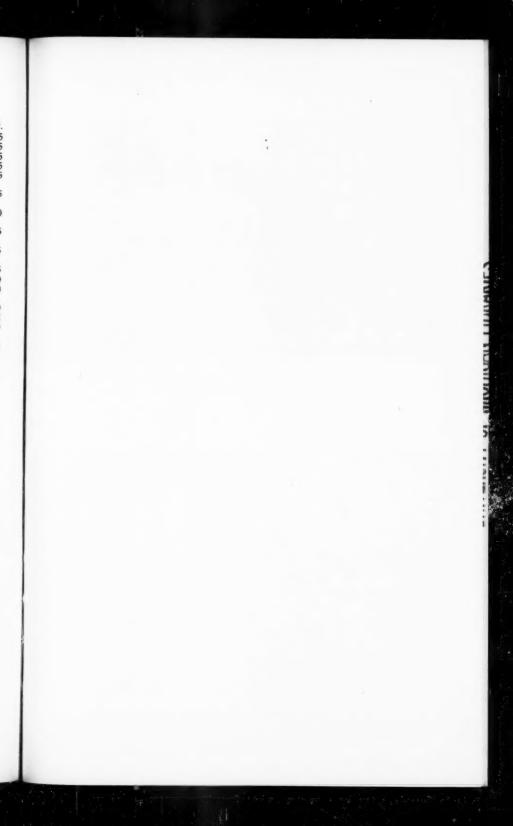
#### Locomotives-1836-1871

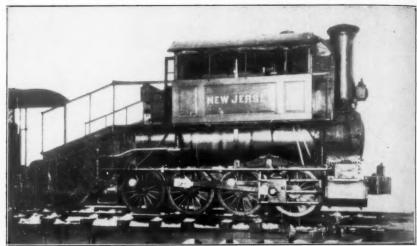
					•				
1871									
#	Name	Builder	C. N	V. Date	Type	Cyl.	Dr.	Wt.	
	Neversink	Baldwin P & R*	#40	8-1836 1846		10½x16"	54"	23744 42750	
		Expl. 1846, Ret	1847	1010	0-0-0			42170	
	Delaware	Ross Winans		12-1837	0-4-0	14x24"	42"	22725	
		Out of service 1	845-7.	Ret. 1847	,			22127	
	Rocket	Braithwaite	,	1838	0-4-0	101/2x16"	42"	18900	
1		P & R*		1863	0.0	.0/20		26550	
	Fire Fly	Braithwaite			0-4-0	101/2×16"	42"	18900	
	Engineer	P & R**		1843				19800	
		P & R*		1848	Expl.	5-1-1848			
2		P & R*		1863				27225	
	Spitfire	Braithwaite		1838	0 - 4 - 0	10½x16"	42"	18900	
		Sold—Leggett's	Gap I	R. R., 4-	22-1851				
	Comet	Braithwaite			0-4-0	10x16"	60"	18900	
	Antelope	P & R**		1845	0-6-0	101/8x16"	60"	22125	
		P & R*	n .	1863	0-6-0			27675	
	D	Sold—American	Dred	ging Co.,	11-17	-13/1	100	10000	
	Dragon	Braithwaite			0-4-0	10½x16"	42"	18900	
	Atalanta	P & R**	1 0 D.	4-1841	D 2	11 1053		23175	
	Planet	Sold—Richmone Braithwaite	a & Da			10½x16"	42"	10000	
3	riallet	P & R*			0-4-0	10%2X10"	42"	18900 26550	
,	Hecla	Braithwaite				10½x16"	42"	18900	
	riccia	Sold—John O'F	allon	Se Louis	Mo	2 15 1052	42	10900	
	Hichens &	Join O I	anon,	ot. Louis	, 1410.,	3-17-1072			
	Harrison	Baldwin	130	12-1830	4-2-0	12½x16"	48"	26710	
	Seminole	Renamed prior				12/2/10	40	20/10	
	Gowan & Marx	E & H		1839		123/4x16"	40"	24660	
		P & R*		8-1856		/4		31050	
		Traded to BLW	/ 8-30-	1860 for	"Activ	e" (and c	ash)		
	Gem	Braithwaite				101/2x16"		18900	
	Gazelle	P & R**			0 - 6 - 0			24750	
		Sold—Camden &		ntic R. R	., 10-3	1-1853.			
	Monocacy	New Castle Co			4-4-0	12x19"	56"	30825	
		P & R*		1847				36800	
	D 11	Sold-Camden &	k Atlar	itic R. R	10-3	1-1853			
	Perkiomen	Baldwin	160			10½x18"	48"	28350	
	Mahanau	Sold—Panama I	K. K.,	F 1942	430	12-160	FOR	20250	
	Mahanoy	Baldwin P & R*	176	5-1842 1846	4-2-0	12x16"	50"	28350 45450	
		P & R*		6-1856		Sc. 1871		47470	
	Wyoming	Baldwin	162	5-1842	4-2-0	103/8x16"	54"	24300	
	w Johning	P & R*	102	2-1847	1-2-0	Sc. 1862	77	44100	
	Sanatoga	Baldwin	177	5-1842	4-2-0	12x16"	54"	27000	
15		P & R*	.,,	6-1847		12410	-	42200	
	Lycoming	Dotterer & Co.		1842	4-2-0	11x20"	54"	23400	
	, ,	Sold-		1848					
	Boston	E & H		1842	4-4-0	121/2x18"	45"	27225	
		Sold—Richard J	ones &	Co., 9-16	-1846				
	Pottsville	New Castle Co		1842	4-4-0	12x16"	40"	24750	
		Sold—Panama I	R. R.,						
	America	Norris-Phila		1842	4-4-0	12½x20"	48"	30150	
	Manadaman	Sc. 11-1866		1043	1.10	101/ 201	40w	20150	
	Manatawny	Norris-Phila.		1842	4-4-0	12½x20"	48"	30150	
	I E Thouas	P & R*		6-1858	4.40	Sc. 1870	1211	41625	
	J. E. Thayer	E & H Sold—		1842 1847	4-4-0	12¼x18"	43"	28125	
		301u-		104/					

	Name	Builder		. λ	. Date		Cyl.	Dr.	W
	Reading	Dotterer & (	Co.		1842 9-1846	4-4-0	12¼x16"	40"	364
	Tuscarora	New Castle	Co.		1842	4-4-0	12x163/8"	40"	265
		P & R*			6-1855		12/11/0/8	10	310
	Pennsylvania	New Castle Sc.	Co.		1843 1855	4-4-0	12x16"	40"	256
	Conestoga	L & C Co. Sold—Schuyl	dill N	vi	1843	4-4-0	125/8×16"	40"	265
	Ontalaunee	New Castle (	Co.		1843 48 &1862	4-4-0 (-?-T)	12x16"	40"	270 387
		Sold—Black	Heath						301
	Schuylkill	L & C Co.			1843	4-4-0	125/8×16"	40"	265
	01 1 1	P & R*			1848		10-1-10-		330
	Shenandoah	L & C Co. Sold—Richard	d Ione	s 8	1843 Co., 5-2		125/8×16"	40"	265
	Tioga	L & C Co.	a Jone		1843		125/8x16"	40"	265
		Sold-Hugh	Campb	ell		souri C	Coal Co. 9		
	Shamokin	L & C Co.			1843	4-4-0	125/8x16"	40"	265
	Potomac	P & R L & C, Co.			11-1855	4-4-0	125/ax16"	40"	371 265
	rotomac	Sold—A. Par	ker &	Co			1298X10	40	200
	Huron	L & C Co.			1843		125/8x16"	40"	265
		P & R*	184	8 &	11-1863				343
	Osceola	L & C Co.			1843	4-4-0	125/8x16"	40"	265
	p	P & R*			1849	440	125/-168	4Om	333
	Erie	L & C Co. P & R*		194	1843 9 & 1863	4-4-0T	125/8x16"	40"	265 387
	Cherokee	L & C Co.		101	1843		125/sx16"	40"	265
	3110101100	Sold—Charles	Barb	er,		0			
	Roanoke	L & C Co.			1843	4-4-0	125/8×16"	40"	265
	Cusanahanna	Sold—Camde L & C Co.	n & A	tla	1942	4-4-0	1-1853 125/8×16"	40"	265
	Susquehanna	Sold—State of	f Mic	hiø	an prior	to 11-	1298X10	40	20)
j	Columbus	New Castle (		0	1844	0-6-0	16x19"	41"	381
		P & R*			11-1856				504
	United States	Baldwin	19		6-1844	0-6-0	15x18"	46"	418
	New England	Baldwin	19	11	7-1844	0-6-0	15x18"	46"	443
	Atlantic	P & R* Norris-Phila.			9-1858 1844	?	Sc. 1871	?	420
	ALIMITE	P & R*			1847			1	452
	Richmond	Norris-Phila.			1844	0-6-0	14½x20"	46"	369
	DI 1	Expl.			9-1844	0.00			405
	Philadelphia	P & R** P & R*	1940	195	10-1844	0-6-0	Sc. 1870		405
	New York	Baldwin	1049, 1		7-1844	0-6-0	15x18"	46"	429
	I OIR	P & R*	10	40	7-1857	0 0 0	17AIU		535
	Ontario	Baldwin	19	9	8-1844	0-6-0	15x18"	46"	429
		P & R*	-		11-1859	0-6-0	15 15	100	497
	Virginia	Baldwin P & R*	20	U	8-1844 8-1860	0-6-0 0-6-0	15x18"	46"	429 506
	Hudson	Balden	20	11	0-1844	0-6-0	15x18"	46"	438
	i i duson	1 & R*	20		10-1850	0-6-0	IZAIO	10	441
	Niagara	Ball win	22	6	3-1845	0-6-0	15x18"	46"	441
	D 10	b # 3.	4.5	-	10-1861	0-6-0	15. 100	100	514
	Pacific	Baldwin	22	1	4-1845	0-6-0	15x18"	46"	438
	Oregon	P & R* Baldwin	22	0	5-1859 4-1845	0-6-0	15x18"	46"	438
	OTERUII	Daluwiii	44	7	4-1043	0-0-0	IJAIO	40	4770

1871								
#	Name	Builder	C. 1	V. Date		Cyl.	Dr.	Wt.
	Independence	Baldwin Sc.	228	4-1845 1867	0-6-0	15x18"	46"	43820
12	Constitution	Baldwin	231	6-1845	0-6-0	15x18"	46"	43820
13	St. Lawrence	Baldwin	230	5-1845	0-6-0	15x18"	46"	43820
	Champlain	Baldwin Sc.	238	9-1845 1865	0-6-0	16½x18"	46"	45245
	Picayune	P & R Off roster	1	1845 1847	2-2-0	4x8"	36"	7930
	Ariel	P&R	2	2-1846	?	Retired	1856	12825
	Kentucky	Baldwin Off roster	250	4-1846 5-1864	0-8-0	15½x20"	46"	50400
	Alabama	Baldwin Off roster	249	4-1846 1871	0-8-0	15½x20"	46"	50400
70	Atlas	Baldwin P & R*	246	3-1846 11-1861	0-8-0	17¼x18"	42"	60750 62550
10	Hercules	Baldwin	247	3-1846	0-8-0	17¼x18"	42"	60750
65	Hercules	P & R*	241	5-1861	0-0-0	1774110	42	63225
0,	Texas	Baldwin	248	4-1846	0-8-0	15½x20"	46"	50400
50		P & R*		8 & 1868	000	,2.0		58725
	Indiana	Baldwin	251	4-1846		151/2x20"	46"	50400
	- "	Sold-U. S. N	Ailitary					
45	Carolina	New Castle C	Co.	4-1846a	1 ?	3	?	42075
45	D	P & R*	252	6-1857	000	15.4 200	4600	52425
202	Princeton	Baldwin P & R*	252	5-1846	0-8-0 0-8-0	15½x20"	46"	50400
202	Amazon	Baldwin	253	11-1868 5-1846	0-8-0	151/×200	46"	63000 50400
41	Amazon	P & R*	277	6-1856	0-0-0	15½x20"	40	56690
71	Warrior	Baldwin	254	5-1846	0-8-0	15½x20"	46"	50400
52	wairior	P & R*	274	10-1858	0-0-0	1772160	40	50400
	Empire	Baldwin	255	5-1846	0-8-0	15½x20"	46"	50400
		P & R*		7-1856		Sc. 1865		58250
	Washington	Baldwin	256	5-1846	0-8-0	15½x20"	46"	50400
		Sold-U. S. N	Ailitary	R. R. #3	0, 1862			
	Pocahontas	Baldwin	257	6-1846	0-8-0	15½x20"	46"	50400
39		Baldwin*	050	8-1855	0-8-0			52550
	Allegheny	Baldwin	258	6-1846	0-8-0	15½x20"	46"	50400
21	V 1.	P & R*	250	11-1851	000	151/20#	460	53775
43	Yorktown	Baldwin P & R*	259	6-1846 11-1856	0-8-0	15½x20"	46"	50400 55155
43	Rio Grande	Baldwin	260	6-1846	0-8-0	15½x20"	46"	45225
48	Rio Giande	P & R*		& 7-1857	0-0-0	17/2120	40	56475
10	Montezuma	Baldwin	261	7-1846	0-8-0	151/2×20"	46"	50400
	Black Diamond	P & R**		6-1858		Sc. 1868		63900
	Florida	Baldwin	262	7-1846	0-8-0	15½x20"	46"	50400
40		P & R*		9-1855			-	52200
	Missouri	New Castle C	o.	1846	?	?	>	43075
46	01 1	P & R*		7-1857	1.00	14-1 00-	100	52425
66	Chesapeake	Norris Bros.	104	1847	4-0-()	14½x22"	46"	44000
00	Palo Alto	P & R* P & R	3	9 & 1861 5-1847	2	?	?	594(X) 468(X)
	Lalo VIIIO	P& E	)	11-1857		ster 1871		41:44)
	Baltimore	Ross Rinans		6-1847	0-8-0	18x22"	46"	60525
63	DALLIMOIC	P & R*		10-1860	0-0-0	10.64	10	61875
30	Monterey	P&R	4	6-1847	?	7	?	44775
16		P & R*		11-1357				44775
	Novelty	P&R	5	6-1847	0-8-0	?	?	47250
		Off roster		11-1850				
	Maryland	Ross Winans		1847	0-8-0	18x22"	46"	60750
54		P & R*		4-1859				61875

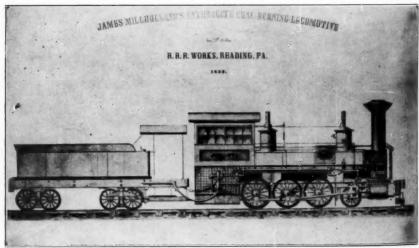
1871	Name	Builder C. N. Date Type	Cul	D-	****
#	Ohio	Ross Winans 1847 0-8-0		Dr. 46"	Wt. 62775
51	Delaware	P & R* 8-1858 Ross Winans 1847 0-8-0	18x22"	46"	61875 60975
20	Witch	P & R* 12-1850 & 12-1859 P & R 6 10-1847 ?	. ?	?	61875 19125
	Gem	Sc. 11-1855 P & R 7 2-1848 ?	?	2	11925
	Susquehanna	Sold—Mine Hill R. R., 1850 P & R 8 3-1848 ?	P	?	38150
	Buena Vista	Sold—Beaver Meadow R. R., 11-29-185 P & R 9 4-1848 4-4-0		2	40025
	Vera Cruz	Sold 1863 P & R 10 4-1848 4-4-0	?	?	37575
	California	Sc. 8-1857 P & R 11 5-1848	P	?	48375
17	Cerro Gordo	P & R* 11-1855 P & R 12 7-1848 4-4-0	?	?	52200 37800
		Sold Williamsport & Elmira R. R., 5-	25-1854		
	Vermont	Hinkley Sold—C. W. & E. #1, 5-25-1854, became Hinkley 241 6-1849 4-4-0	16x20" P & R 35	4—1	45800 1-1872
	Massachusetts	Hinkley Sold—C. W. & E. #2, 1853, became P & Hinkley 240 6-1849 4-4-0	16x20" 5 R 355—11	-187	45800 2
18	Maine	Hinkley 240 6-1849 4-4-0	16x20" 5	4"	45800
	Cambridge	D. B. & K. 1850 ? Off roster 11-1861	?	3	57375
	Baltic Ex-Mine Hill R.	Baldwin 366 10-1850 0-8-0 R. #10 8-1849a	17x22" 4 Sold—186	13"	51425
	Dauphin	Baldwin 333 10-1850 0-8-0 R. R. "Dauphin" 11-1848a		3"	53325
	Perry Ex - Pennsylvania	Baldwin 334 10-1850 0-8-0		3"	53550
	Mohawk		30Id-100	2	43650
67		P & R* 9-1861			53325
69	Genesee	Norris-Schen 1850 4-4-0 P & R* 11-1861	?	?	43825 53325
	Patapsco	Ross Winans 1850 0-8-0	P Sc. 1868	?	55350
	Georgia	Ross Winans 1850 0-8-0	ic. 1868	?	54225
251	Louisiana	Ross Winans 1850 0-8-0	?	?	53775
251	Minnesota	P & R* 1857 & 9-1869	2	2	68235
189	Minnesota	Ross Winans 1850 0-8-0 P & R* 10-1866	r	8	50625 67500
892	Stag	P & R 13 2-1851 ?	?	?	32850
0,2	Iowa	Ross Winans 1851 0-8-0 Sc. 1868	?	?	56690
22	Wisconsin	Ross Winans 1851 0-8-0	2	?	56690
	New Jersey	P & R* 1-1871 Ross Winans 1852 0-8-0	?	3"	69300 57375
296	Mississippi	P & R* 11-1870 Ross Winans 1852 0-8-0	?	3" ?	69300 59625
225	Connecticut	P & R* 10-1861 & 5-1869 Ross Winans 1852 0-8-0		3" ?	69300 59625
238	Illinois	P & R* 9-1860 & 7-1869 P & R 14 5-1852 4-4-0	?		60670 62325
		P & R* 5-1861 S	c. 1867		63225
	Utah	Ross Winans 1852 0-8-0	?	?	58950
243		P & R* 1862 & 7-1869	18x22" 4	3"	69300
277	New Hampshire	R. Winans 1852 0-8-0 P & R* 5-1870	? 18x22" 4.	?	59625 69300





-Courtesy of W. A. Lucas.

P. & R. "New Jersey"—Ross Winans, 1852. Shown as partially rebuilt by James Millholland and previous to general rebuilding.



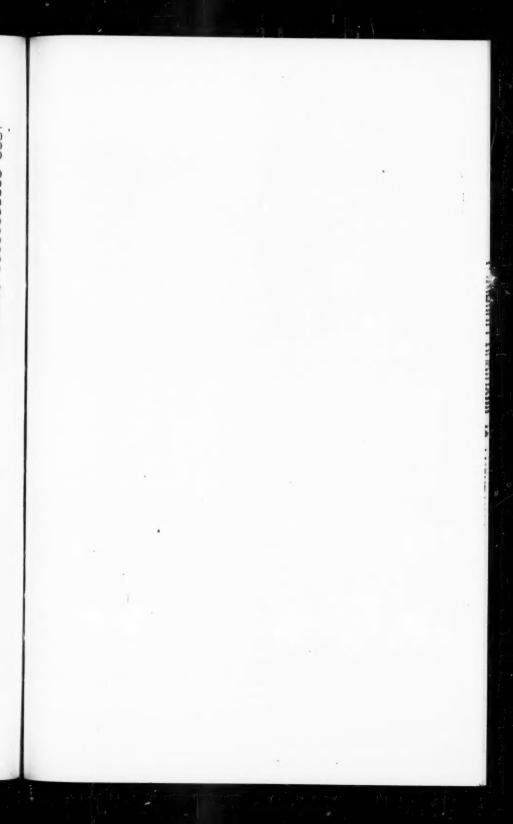
-Courtesy of W. A. Lucas.

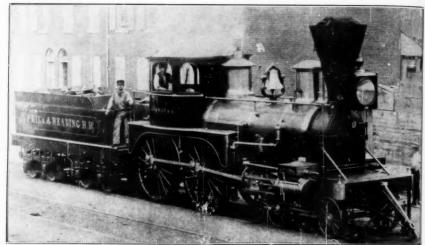
P. & R. "Juniatta"-Reading Shops, 1855. Later renamed "Juniata."

	*							
1871	Name	Builder	C 2	V. Date	Type	e Cyl.	Dr	Wt.
n		P & R	15	6-1852	4-4-0		Di.	63225
23	Michigan	P & R	16	7-1852	2-6-0	Sc. 1867	?	60525
24	Wyomissing Pawnee	P&R	17	8-1852	2-6-0	7	5	60525
24	Swatara	P&R	18	8-1852	2.6.0	Ret. 1870	1	60525
	Perkiomen	P & R	19	9-1852	2-6-0	Ket. 10/0	?	60525
59		P & R**	19	11-1859	2-6-0	1	1	71000
19	Powhatan	P & R	20	11-1852		Ret. 1869		60525
	Tennessee	P & R	21	11-1852		Ret. 1870		60525
26	Octorara	P & R	22	5-1853	2-6-0		?	62775
27	Metamora	P & R	23	6-1853	2-6-0	5 5	5	62775
28	Aramingo	P & R	24	7-1853	2-6-0	2	5	62775
29	Wissahickon	P&R	25	8-1853	2-6-0	P	5	62775
30	Comanche	P & R	26	9-1853	2-6-0		2	62775
31	Seneca	P&R	27	10-1853	2-6-0		2.2.2.2	62775
32	Tecumseh	D & D	20	11-1853	2-6-0		>	62775
20	Saranac	Ross Winans	-0	1854	0-8-0	?	2	60750
280	Duranac	P & R*		6-1870		18x22"	43"	69300
200	Monongahela	Ross Winans		1854	0-8-0	7	7	60750
257	Mononganeia	P & R*				18x22"	43"	69300
	Tamagua	Ross Winans	0 100	1854	0-8-0	2	5	60750
33	rumagaa	P & R*		3-1871	0-8-0	18x22"	43"	69300
	Narragansett	Ross Winans		1854	0-8-0	?	5	60750
290	, tarragamoett	P & R*	1862	& 4-1870	0-8-0	18x22"	43"	69300
	Colorado	Ross Winans		1854	0-8-0	2	5	60750
274	Gordinad	P & R*		& 5-1870	0-8-0	18x22"	43"	69300
	Susquehanna	Ross Winans		1854	0-8-0	?	3	60750
252	Daoquemania	P & R*		9-1869	000	?	2	?
	Chippeway	Ross Winans		1854	0-8-0	?	?	60750
215		P & R*		5-1869	0-8-0	18x22"	43"	69300
	Kennebeck	Ross Winans		1854	0-8-0	3	5	60750
286		P & R*		8-1870	0 - 8 - 0	18x22"	43"	69300
	Penobscot	Ross Winans		1854	0 - 8 - 0	?	?	60750
279		P & R*		6-1870	0-8-0	18x22"	43"	69300
	Nebraska	Ross Winans			0-8-0	?	?	60750
210		P & R*		3-1869	0 - 8 - 0	18x22"	43"	69300
	Santee	Ross Winans		1854	0-8-0	Sc. 1869		60750
	Cumberland	Ross Winans		1854	0-8-0	?	?	60750
247		P & R*				18x22"	43"	69300
	Shenandoah	Ross Winans		1854	0-8-0	?	3	60750
259		P & R*		11-1869		18x22"	43"	69300
	Savannah	Ross Winans		1854	0-8-0	?	?	60750
262	_	P & R*	1863	& 1-1870	0-8-0	18x22"	43"	69300
	Potomac	Ross Winans		1854	0-8-0	Sc. 1868	_	60750
-	Elmira	R. Norris & S	on	1854	4-4-0	7	3	59175
72		P & R*		7-1862				60525
-	Auburn	R. Norris & So	on 778		4-4-0	P	?	59400
73		P & R*		8-1862			_	60525
34	Sciota	P & R	29	11-1854	2-6-0	?	?	62775
35	Wabash	P & R	30		2-6-0	?	?	62775
	Yellow Springs	Ross Winans		1855	0-8-0	Sc. 1868	7	60300
	Pine Grove	Danforth & C	ooke	2-1855a	. ?	?	?	51975
		Purchased from	n P. C	honteau	Jr. & C	0.	-	COREO
267	D 1 C		11-1860		000	?	?	60750
207	Rausch Gap	Ross Winans		1855	0-8-0	10.224	?	60300
297	A 1	P & R*		11-1870	0-8-0	18x22"	43"	69300
272	Arkansas	Ross Winans		1855	0-8-0	10-22"	43"	60300
272	D-44	P & R*		5-1870	0-8-0	18x22"	43"	69300 60300
256	Pottsville	Ross Winans P & R*		1855 10-1869	0-8-0 0-8-0	18x22"	43"	69300
270		L & K.		10-1009	0-0-0	IOXZZ"	45	09300

THE PERSON AS SERVICE BUILDING BELLEVILLE

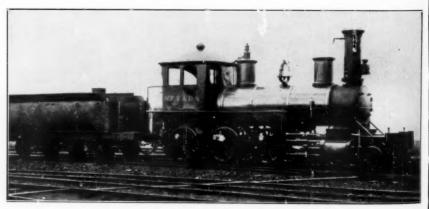
1071										
1871	Name	Builder	C	N	Date	Type	Cyl.	Dr.	Wt.	
π	San Francisco	Ross Winans	a.	14.	1855	0-8-0	?	?	60300	4
235	Cuit I lancioco	P & R*		6	-1869	0-8-0	18x22"	43"	69300	
	Mount Vernon	Ross Winans			1855	0-8-0	?	?	60300	
255		P & R*		10	-1869		?	3	?	
260	Buffalo	Ross Winans		1	1855	0-8-0	1022#	?	60300	
260	Lexington	P & R* Ross Winans		1	-1870 1855	0-8-0 0-8-0	18x22"	43"	69300 60300	
266	Lexington	P & R*		3	-1870	0-8-0	18x22"	43"	69300	
	Ashland	Ross Winans			1855	0-8-0	?	?	60300	
273		P & R*			-1870	0-8-0	18x22"	43"	69300	
200	Rhode Island	Ross Winans			1855	0-8-0	10:22	43"	60300	
288	Richmond	P & R* Ross Winans		8	-1870 1855	0-8-0 0-8-0	18x22"	43"	69300	
291	Riciiliona	P & R*		0	-1870	0-8-0	18x22"	43"	69300	
671	Humming Bird	Baldwin	633		-1855	4-4-0	16x22"	72"	55350	
		Sold—U. S. M Ross Winans	lilitary	R.	R. #	81, 186	2			
2.5	Germantown	Ross Winans			1855	0-8-0	?		60300	
36	II at town	P & R*			-1871	0-8-0	18x22"	43"	69300	
37	Harrisburg	Ross Winans P & R*			1855 -1871	0-8-0 0-8-0	18x22"	43"	60300 69300	
31	Wilmington	Ross Winans		2	1855	0-8-0	7	7	60300	
213	** ************************************	P & R*		4	-1869	0-8-0	18x22"	43"	69300	
	Panama	Ross Winans			1855	0-8-0	?	7	60300	
205		P & R*			-1869	0-8-0	18x22"	43"	69300	
	Blue Bird	Baldwin	641	. P	-1855	4-4-0	16x22"	66"	55350	
	Albany	Sold—U. S. M Ross Winans	imitary	R.	1855	0-8-0	2	>	60300	
271	Albally	P & R*		5.	-1870	0-8-0	18x22"	43"	69300	
2.1	Charleston	Ross Winans			1855	0-8-0	?	?	60300	
253		P & R*	1863	& 10	-1869	0-8-0	18x22"	43"	69300	
38	Juniata	P&R	31	6	-1855	2-6-0	?	5	62775	
= -	Taunton	Taunton	E 195	0	-1855	4-4-0	15x22"	66"	55575	
56	Witch	P & R* P & R	193 5-1859 32	11.	-1855	7	?	>	64350 19125	
	WILCH	P & R*	140	8.2	1868	2-2-2	8x8"	45"	24075	
		Names retained					-			
	Ariel	P & R	33		-1856	?	P	2	18675	
	Alpha	P & R***	ooke		-1871 -1857a	?	. 7	?	18675	
	Petrel	Danforth & Co Purchased from						r	53100	
44		P & R*	ii joiii		1863	?	?	?	63200	
49	Vera Cruz	P & R	34	8	-1857	?	?	?	59625	
57	Minnehaha	P & R	35		-1859	4-4-0	?	?	56690	
58	Hiawatha	P & R	36		-1859	4-4-0	?	?	56690	
61	Active	Baldwin	942		-1860	0-4-0	11x16"	36"	32400	
64 71	Fawn Union	P&R P&R	37 38		-1860 -1862	4-4-0 4-4-0T	(?)	5	40500 78075	
/1	Venus	P&R	39		1862	4-4-0	(1)	?	51425	
74	Dove	P & R**			1864				43425	
75	Mars	P&R	40		1862	4-4-0	7	?	51425	
01	Celeste	Ross Winans	0.100		1862	000	10.22#	420	69300	
91 76	Dacotah	P & R* P & R	9-1863 41		1863	0-8-0 4-4-0	18x22"	43"	56690	
10	Dacotah Dakota	P & R***	41	1-	1868	1-1-0	1	1	/0020	
77	Nevada	P&R	42	3-	1863	4-6-0	18x22"	46"	68600	
78	Wyoming	P & R	43	3-	1863	4-6-0	18x22"	46"	68600	
79	Anthracite	LSRR		4-	1863a		3	?	50850	
80	Beaufort	Norris-Phila			1863a		?	?	43650	
81	Caroline	LSRR		4-	1863a	?	?	?	53325	





-Courtesy of the Reading Co.

P. & R. "Hiawatha"-Reading Shops, 1859.



The first Reading "Gun-boat." Reading Shops, 1863.

1871								
#	Name	Builder	CA	I. Date	Type	Cyl.	Dr.	Wt.
82	Mountaineer	P & R	44		0-8-0T	?	?	73350
83	Ringgold	Norris-Phila	44	4-1863a		5	5	64350
0)	Marion	Norris-Phila		4-1863a		P	2	49275
179	141 1011	P & R*			4-4-0		4	56250
84	Sumpter	Norris-Phila		4-1863a		?	?	42200
0.	Catawissa	Edward Bury		1833			•	18900
	OR FR 17 100K	Sold-American	Dreda			71		10200
25	Ottawa	Baldwin	779	8-1857	0-8-0	18x20"	43"	66375
	Gen'l Taylor	Baldwin	290	4-1847	0-6-0	13x18"	42"	38475
		Sc.		1869				
	Port Clinton	Norris		4-1863a	?	?	?	48375
		Sc.		1869				
	Except P & R #82 Idaho	2, the above II of	engines	came f	rom the	LSR	R	
85	Idaho	P&R	45	5-1863	0-8-0T	18x22"	36"	72100
86	Eldorado	P & R	46	6-1863	4-6-0	18x22"	46"	69075
87	Sonora	P & R	47	6-1863	4-6-0	18x22"	46"	69075
88	Arizona	P&R	48	7-1863	4-6-0	18x22"	46"	69075
89	Antietam	P & R	49	8-1863	4-6-0	18x22"	46"	69075
90	Mariposa	P&R	50	8-1863	4-6-0	18x22"	46"	69075
92	Monitor	P & R	51	9-1863	4-6-0	18x22"	46"	69075
03	Pennsylvania	P&R	52	9-1863	0-12-0T	20x26"	43"	100320
93	Tri Tr	P & R	071	1870	0-10-0T	11 100	364	80775
94	Tip Top	Baldwin	871	8-1859	0-4-0T	11x16"	36"	35775
95	Chicago	Pur. from G. D	. Cole	man 9-1		1022#	160	60075
96	Chicago	P&R P&R	54	11-1863	4-6-0	18x22"	46" 46"	69075
97	Gettysburg	P&R	55	11-1863	4-6-0 4-6-0	18x22" 18x22"	46"	69075
98		P&F	56	11-1863	4-6-0	18x22"	46"	69075 69075
99		P&R	57	1-1864	4-6-0	18x22"	46"	68850
100	Chattanooga Vicksburg	P&R	58	1-1864	4-6-0	18x22"	46"	68850
101			59	4-1864	4-4-0	7	70	56690
102	Kentucky	P & R	60	5-1864	0-10-0	20x26"	473/1"	82575
130	Elk	P & R P & R Baldwin	1174	10-1863	0-8-0	20x22"	43"	78750
.20		Ex Catawissa R		10. 8-186		20122		10170
131	Pittsburg	P&R	61	8-1864	4-6-0	18x22"	46"	68850
	Annapolis	H B & Co.		8-1864a	?	?	?	72225
	,	Sc. P & R		1870				
157	Lancaster	P & R	62	8-1864	4-6-0	18x22"	46"	68850
132	Cincinnati	PAR	63	9-1864	4-6-0	18x22"	46"	68850
	Hagerstown	H B & Co.		9-1864a	3	?	3	72225
133	_	P & R*		5-1871	0-8-0	18x22"	43"	69300
		E S Norris		10-1864a		?	?	52425
245		P & R*			4-4-0		_	54900
254	Hornet	E S Norris		10-1864a		?	?	52200
254	II 1- C	P & R*		10-1869		2	2	54900
295	Havre de Grace	H B & Co. P & R*		10-1864a	2	7	?	72225
134	Wasn			10-1870 10-1864a	0-8-0	18x22"	43"	69300 52425
135	Wasp Cleveland	E S Norris P & R	64	11-1864	4-6-0	18x22"	46"	68850
136	Detroit	P & R	65	11-1864	4-6-0	18x22"	46"	68850
137	Milwaukee	P & R	66	11-1864	4-6-0	18x22"	46"	68850
DI		E S Norris	00	11-1864a		10X22"	40	52425
209	CHERCE	P & R*		3-1869	4-4-0	ı		54900
138	Springfield	P & R	67	11-1864	4-6-0	18x22"	46"	68850
139	Toledo	P & R	68		4-6-0	18x22"	46"	68850
140	Ant	Baldwin	1282	9-1864	0-4-0T	11x16"	36"	39600
	Ex Bellefonte & S	Snowshoe R. R.	"Mon	itor"-12	2-1864a			22000
	Copley	Baldwin	1124	4-1863	0-6-0	15x18"	44"	45000
	Ex Ironton R. R.	. "Copley"-12-18	364a. S	Sold Eas	st Penna	R. R. #	14	
	"Lehigh" 11-30-186	7, name retained	when	road a co	quired by	P&R	5-186	9

188

190

Mink

Winona

92

93

8-1866

11-1866

6-4-0

4-4-0

34"

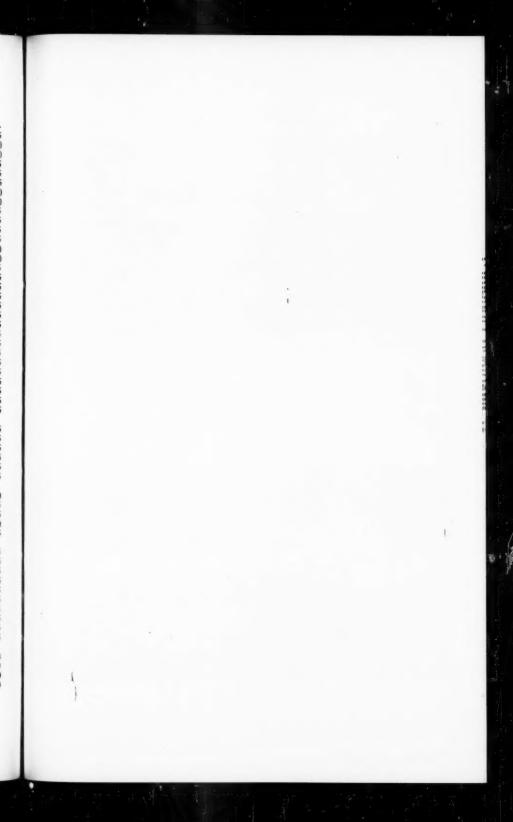
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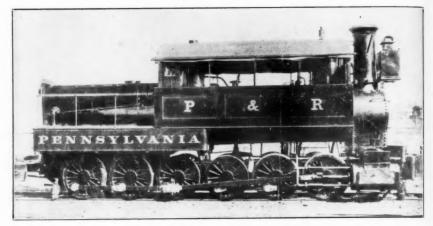
26550

56690

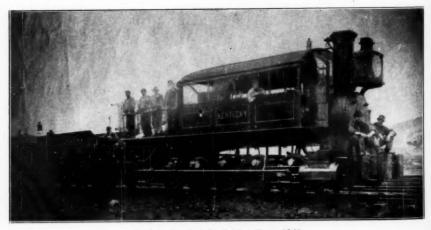
P&R

P & R





P. & R. "Pennsylvania"—Reading Shops, 1863.



P. & R. "Kentucky"—Reading Shops, 1864.

1871								
#	Name	Builder	C. N	V. Date	Type	Cyl.	Dr.	Wt.
n	America	P&R		11-1866	4-6-0	18x22"	46"	69075
	Sold—East Penna		24	12-1866	1-0-0	IOALL	40	03017
1091	Columbia	P&R	95	1867	4-4-0	?	?	56690
1021	Sold—Reading &			3-1867		•		
191	Illinois	P&R	96	5-1867	4-4-0	17x22"	611/2"	62525
	Transit	P&R	97	7-1867	2-2-2	8x8"	45"	21375
192	Michigan	P & R	98	8-1867	4-4-0	17x22"	611/2"	62525
193	Otter	P & R	99	9-1867	0 - 4 - 0	9x16"	34"	25875
194	Omaha	P & R	100	10-1867	4-4-0	?	?	56690
		P & R	101	10-1867	4-6-0	18x22"	46"	69075
	Sold—East Penna	R. R.	100	1867				F. ( CO ()
	C 11 F . D	P&R	102	11-1867	4-4-0	?	3	56690
105	Sold—East Penna		102	1867	0.40	0-160	244	25075
195	Seal	P&R	103	10-1867	0-4-0	9x16"	34"	25875
196	Alaska	P & R	104	4-1868	4-4-0	20-264	12"	56690
197	Saxon	P & R P & R	105	5-1868	0-10-0	20x26"	43"	85500
198	Norman Black Diamond		106	7-1868	0-10-0	20x26"	43"	85500
199	Black Diamond	P&R P&R	107 108	9-1868 11-1868	000	10-22#	43"	67500
201	Potomac		109		0-8-0	18x22"		69525
203	Perkiomen	P&R P&R	110	11-1868 11-1868	4-4-0	17x22"		
204 206	Yellow Springs	P&R	111	2-1869	0-8-0	18x22"	43"	69525 68235
207	Georgia	P&R	112	2-1869	160	18x22"	46"	72450
211	Spartan Peruvian	P & R	113	3-1869	4-6-0 4-6-0	18x22"	46"	72450
212	Canadian	P & R	114	4-1869		10X22"	46"	
208		Baldwin	114	5-1869a	4-6-0	18x22"	50"	72450 68625
214	Blendon Arabian	P & R	115			17½x22"	46"	72450
216	Decatur	Rogers	117	5-1869a	4-6-0	18x22"	70	58250
217	Dauphin	P & R		5-18691	460	18x22"	46"	72450
218	Easton	Rogers		5-18691	7-0-0	7	2	54000
219	Essex	Rogers		5-1869a	?	7	7	58250
220	Franklin	Rogers		5-1869a	5	5	۶	58250
221	Fleetwood	Baldwin		5-1869a	160	17½x22"	50"	68625
222	Hanover	Rogers		5-1869a	4-0-0	7	3	54000
223	lefferson	P & R		5-1869a		18x22"	46"	72450
224	Lehigh		1124			15x18"	44"	45000
227	Lenign	E. P. R. R. #14		1 1005	0-0-0	IJAIO	41	12000
226	Madison	Norris-Phila	948	5-1869a	4-4-0	?	?	57375
		E. P. R. R. #1						
227	Shamrock	Baldwin "		5-1869a	4-6-0	171/2×22"	50"	68625
228	Trenton	Norris-Lanc		5-1869a	4-6-0	18x22"	46"	72450
		E. P. R. R. #10						
229	Tacony	E. P. R. R. #10 P & R	102		4-4-0	?	?	56690
	Nos. 208, 216-224,	226-229 rec'd fre	om E	ast Penna	a. R. F	2., 5-1869		
230	Australia	Baldwin	1881	5-1869	4-6-0	18x22"	46"	72450
231	Belgian	P & R	116	6-1869	4-6-0	18x22"	46"	72450
232	Bolivia		1885	5-1869	4-6-0	18x22"	46"	72450
233	Caledonia		1882	5-1869	4-6-0	18x22"	46"	72450
234	Persian	P & R	117	6-1869	4-6-0	18x22"	46"	72450
236	America	Baldwin	1893	5-1869	4-6-0	18x22"	46"	72450
237	Bavaria	Baldwin	1891	5-1869	4-6-0	18x22"	46"	72450
239	Cambria		1900	6-1869	4-6-0	18x22"	46"	72450
240	Geneva		1914	6-1869	4-6-0	18x22"	46"	72450
241	Hungarian		118	7-1869	4-6-0	18x22"	46"	72450
242	Havana		1910	6-1869	4-6-0	18x22"	46"	72450
244	Vienna		1907	6-1869	4-6-0	18x22"	46"	72450
246	Brazilian		119	8-1869	4-6-0	18x22"	46"	72450
248	Caspian		120	8-1869	4-6-0	18x22"	46"	72450
249	Valentia		1915	6-1869	4-6-0	18x22"	46"	72450
250	Corsican	P & R	121	9-1869	4-6-0	18x22"	46"	72450

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1871								
#	Name	Builder	C. 1	N. Date	Type	Cyl.	Dr.	Wt.
258	Minerva	P & R	122	11-1869	0-6-0	16x18"	43"	60800
261	Norwegian	P & R	123	1-1870	4-5-0	18x22"	46"	72450
263	Austrian	P & R	124	3-1870	4-6-0	18x22"	46"	72450
264	Badger	P & R	125	3-1870	0-4-0	9x16"	34"	25500
265	Castilian	P & R	126	3-1870	4-6-0	18x22"	46"	72450
268	Weasel	P & R	127	3-1870	245	9x16"	34"	25500
269	Russian	P&R	128	4-1870	4-6	18x22"	46"	72450
270	Sable	P&R	129	4-1870	0.4-0	9x16"	34"	25500
275	Cuban	P&R	130	5-1870	-6-0	18x22"	46"	72450
276	Diana	P&R	138	5-1870	0-6-0	16x18"	43"	64000
278	Siberian	P&R	1305	5-1870	4-0-0	18x22"	46"	72450
281	Vesta	P&R	133	6-1870	0-5-0	16x18"	43"	64000
282	Athenian	P & R	134	7-1870	4-6-0	18x22"	46"	72450
283	Lippincott	Baldwin	589	5-1854	0-6-0	13½x18"	42"	42075
284	Navigation	Baldwin	544	8-1853	0-6-0	13½x18"	42"	41175
285	I R Worrell	Baldwin	758	5-1857	0-6-0	13½x18"	43"	39375
207	Nos. 283-285 wer						and	placed
	on the road Jul	v 1870	the sei	idyikiii i	vavigat.	ion Co.,	anu	praceu
287	Mexican	P & R	135	8-1870	4-6-0	18x22"	46"	72450
289	Bohemian	P & R	136	9-1870	4-6-0	18x22"	46"	72450
292	Roman	P & R	137	9-1870	4-6-0	18x22"	46"	72450
293	Vulcan	P&R	138	9-1870	0-6-0	16x18"	43"	64000
298	Belmont	Baldwin	1137	5-1863	4-4-0	13½x24"	56"	48000
299	Bridgeport	Baldwin	1730	6-1868	0-6-0	15x18"	56"	52875
300	Chestnut Hill	Baldwin	2011	11-1869	4-4-0	13x24"	573/4"	
301	Conshohocken	Baldwin	744	2-1857	4-4-0	13½x24"	54"	42700
302	Carlisle	Baldwin	1211	2-1864	4-4-0	13½x24"	60"	45000
303	E C Dale	Baldwin	1592	3-1867	0-6-0	15x18"	44"	52000
304	Downingtown	Baldwin	530	5-1853	0-6-0	12½x18"	42"	41800
305	Mount Airy	Baldwin	1991	10-1869	0-6-0	15x18"	42"	52875
306	Manayunk	Baldwin	692	4-1856	4-4-0	13½x24"	54"	42700
307	Manatawna	Baldwin	1213	2-1864	4-4-0	13½x24"	60"	45000
308	Nicetown	Baldwin	1700	2-1868	4-4-0	13x24"	56"	45225
309	Norristown	Baldwin	593	5-1854	0-6-0	14½x18"	42"	41800
310	Oakland	Baldwin	1424	11-1865	4-4-0	14x24"	54"	53000
311	Plymouth	Baldwin	2161	6-1870	4-6-0	16x24"	54"	72675
312	Quaker City	Baldwin	772	7-1857	4-4-0	13x24"	60"	43800
313	Rockland	Baldwin	687	3-1856	0-6-0	14½x18"	42"	41800
314	Roxborough	Baldwin	843	3-1859	4-4-0	13x24"	54"	44800
315	Superior	Baldwin	616	9-1854	4-4-0			
316	Stanhope	Baldwin	721	10-1856	4-4-0	13½x24"	54"	42700
317		Baldwin	729	11-1856	4-4-0	12½x24"	60" 54"	43800 42700
318	Spring Mill Thorndale		1679			13½x24"		
319	Tioga	Baldwin Baldwin	714	12-1867 8-1856	0-6-0 4-4-0	15x18"	44"	52000 43800
320	Wayne	Baldwin	1908	6-1869	4-4-0	12½x24"	572/11	
240	wayne	Daiuwill	1900	0-1009	4-4-0	13x24"	573/4"	45225

Of the above numbers, 298-320 were received from the Philadelphia, Germantown & Norristown R. R., and placed on the P & R Dec. 1870. Some of the P. G. & N. engines carried names the same as on the P & R and these were renamed as follows:

P & R	PG&N	P & R	PG&N	V
"Bridgeport" "Carlisle"	"Wyoming"; "Wissahickon";	"Chestnut Hill" "Mount Airy"	"Dakota"; "Oregon";	
"Oakland"	"U. S. Grant";	"Rockland"	"America";	
"Stanhope" "Wayne"	"Germantown"; "Alaska":	"Thorndale" "Nicetown"	"Omaha"; "Montana":	
"Belmont"	"Union";		,	

1871									
#	Name		Builder	C. 1	V. Date	Type	Cyl.	Dr.	Wt.
321	Grecian	F	& R	139	3-1871	4-6-0	18x22"	1500	72450
322	Italian	F	& R	140	5-1871	4-6-0	18x22"	46"	72450
323	Denver	F	& R	141	6-1871	4-4-0	15x20"	61"	68000
324	Duluth	F	& R	142	7-187	440	15x20"	61"	68000
325	Ionian	F	& R	143	7-1871	4-6-0	18x22"	46"	72450
326	Saturn	F		144	7-1871	0-6-0	16x18"	43**	64000
327	Moravian	F		145	8-1871	4.6.0	18x22"	40	72450
328	Sitka	F		146	8-1871	4.4.0	15x20"	610	63000
329	Corinthian	F		147	8-1871	100	18x22**	400	72450
330	Oneida	F		148	9-1871	4-4-0	5x20"	6i"	68000
331	Syrian	F		149	10-1871	4-6-0	18x22"	46"	72450
332	Ermine	F		150	10-1871	0-4-0	9x16"	34"	25500
333	Mole	F		151	10-1871	0-4-0	9x16"	34"	25500
334	Aurora	P		152	10-1871	0-6-0	16x18"	43"	64000
335	Apollo	F		153	11-1871	0-6-0	16x18"	43"	64000
336	Caucasian	F		154	11-1871	4-6-0	18x22"	46"	72450
337	Hibernian	F		155	11-1871	4-6-0	18x22"	46"	72450
338	Mongolian	F	& R	156	11-1871	4-6-0	18x22"	46"	72450

Note:—The locomotives "Dauphin" and "Perry" were both built for the Pennsylvania R. R., by Baldwin in Nov. 1848 and both are found in the roster for 1850 of that road. It seems evident that the P. R. R. disposed of them to the P & R as they entered service on the latter in Oct. 1850. In a like manner, the "Baltic" was built for the Mine Hill R. R. as their #10 in Aug. 1849 and here again, we find this locomotive entering the service of the P & R in Oct. 1850, probably through purchase.

## READING LOCOMOTIVES 1871-1900

Although the second period of the Philadelphia and Reading locomotive history has been selected to start with the substitution of numbers for names, there was no pronounced development or change of locomotive design for Millholland's standard classes were still being constructed. It was not until 1877 however, with the introduction of the

Wootten boiler, that the next radical change took place.

The search for a satisfactory firebox in which to burn anthracite waste or "culm," had been carried on rather independently on the various hard coal roads. In preparing anthracite for market, there had always been a large amount of breakage and waste that was dumped on refuse piles near the breakers. Much of this so called waste was coal too small for domestic sale. The hage piles continued to grow year by year, and no doubt spurred the idea of using this "dirt cheap" fuel,

mined without the payment of royalties.

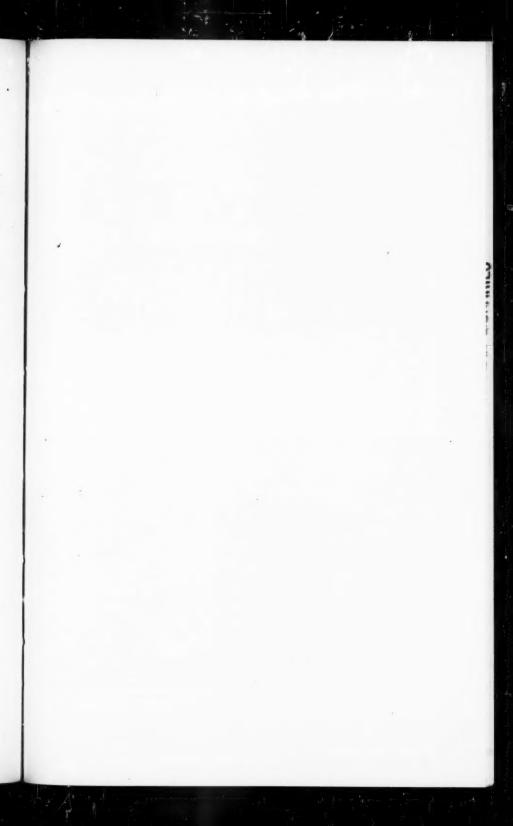
John E. Wootten, General Manager of the Philadelphia and Reading, realized that important economies could be made if "culm" could be successfully used. Accordingly, he patented a specially designed boiler with a much larger grate area than was then in use in locomotives burning lump anthracite. To use "culm" it was necessary to carry a thin fire and have a light draft in order to avoid blowing fuel off the grate. Wootten placed the firebox of the boiler entirely above the driving wheels so that the width was limited only by the loading gauge. A combustion chamber extended forward into the boiler barrel, and was separated from the firebox proper by a bridge wall. The grate consisted of water tubes and cast iron bars, and the junction of the firebox and combustion chamber was so arranged that, even with the grate placed entirely above the driving wheels, it was not necessary to raise the boiler to an excessive height above the rails. Owing to the width of the firebox, two firedoors were provided.

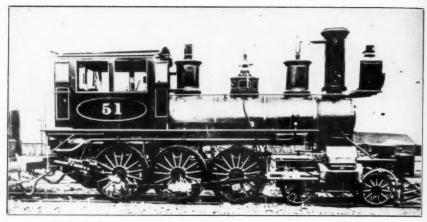
The crown sheet of the firebox was horizontal, but the roof sheet sloped toward the rear at a fairly steep angle, providing very little steam space at the back. The mud ring, or water space frame, was made of flanged plates shaped like an inverted U, and carefully fitted and riveted to the inside and outside firebox sheets. A short smokebox was used with a variable exhaust nozzle and there was a register in the front

door for the admission of air.\*

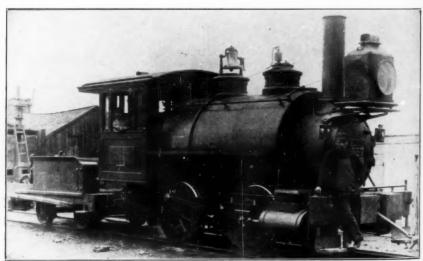
This was briefly, the original design of the Wootten boiler, but there were certain features that soon gave trouble. On account of the sloping roof sheet, staybolt breakages were frequent. The flanged mud ring was another source of weakness as well as the raised water space at the back of the combustion chamber. These defects of design were remedied by 1890 through the efforts of the Baldwin Locomotive Works and L. B. Paxson, Superintendent of Motive Power.

<sup>\*</sup>Data from "The Development of Anthracite-Burning Locomotive," by Paul T. Warner, R & LHS Bulletin #52.





P. & R. #51-Reading Shops, 1873.



-Courtesy of John G. Smith, Jr.

P. & R. #267—Reading Shops, 1883.

The first locomotive to be built with a Wootten boiler and firebox, patented in 1877, was #408, a 4-6-0 type built by the Reading Shops in January of that year. The locomotive possessed many features of the Gunboat class, even with the cab over the firebox. The #408 proved successful and another of similar design, #412 was sent to Europe and exhibited at the Paris Exposition of 1878. It was subsequently tried on the Northern Railway of France and on several Italian railroads. On account of the restricted clearance limits on the Northern Railway of France, it was necessary before trying the locomotive on that line, to move the cab ahead of the firebox so it could be lowered. This locomotive then, was probably the first of many locomotives nick-named "Camelbacks" on the Reading and "Camelbacks" or "Mother Hubbards" on other roads employing them.

The successful performance of #408 and others, plus the economy of using waste fuel marked the beginning of an epoch in which the entire design and appearance of Reading locomotives were radically changed, while there was a notable increase in size and power of the machines. For example, passenger as well as freight locomotives were soon built with Wootten boilers and in December, 1878, #122, the first 4-4-0 to be so designed was built at Reading. In 1880 #411 and #506 were also built at Reading, and at that time were the heaviest passenger locomotives constructed in the United States, weighing almost forty-four long tons without tender. They also trimmed the running time between Philadelphia and New York, their fastest schedule, including one stop and three slowdowns, allowed 64 minutes for 54.9 miles between Wayne Junction and Bound Brook. On this run it was necessary to maintain a speed of 72 miles per hour for eight miles. Lump anthracite instead of "culm" was used to safeguard against steam failures and the locomotive was manned by two firemen as well as the engineer, the third person known as the "Furnace Door Opener." Thirty-five locomotives similar to #122, #411, and #506 with their typical four windowed cabs, were built at Reading until 1884, when the shop turned to making the fireboxes with horizontal roof sheets and three windowed The firebox and boiler changes permitted a higher boiler pressure and tractive effort without changing the over-all dimensions.

It is notable that #206 built at Reading in July, 1886 and having the improved Wootten boiler, ran a mile on the New York Branch with three cars near Neshaminy Falls, Pennsylvania, 39¾ seconds, equivalent to 90.5 miles per hour. Five consecutive miles were covered at an average speed of 87 miles per hour on the same run. The record had been formerly held by #366, built at Reading Shops February, 1884, having a Wootten boiler of original design. This locomotive in March, 1890 ran 89 miles in 85 minutes between Philadelphia and New York without

special preparations.

The first Baldwin built locomotives with Wootten boilers and the first Consolidation 2-8-0 type, used on the Reading, were delivered in 1880. They proved very successful and a total of 138 of those later elassified I-1, were built. The Reading has since developed the Consolidation type to a high degree and in later years proved to be an important factor in the limited use of the trailer truck on the freight locomotives.

Wootten boilers were soon applied to 0-4-0, 0-6-0, and 0-8-0 types. The 0-8-0's proved useful on the heavy grades in the coal regions until the coming of the Consolidations. To give some idea of the widespread and immediate use of the Wootten boiler, below are listed the first twenty-five built at Reading Shops:

408	4-6-0	1-1877		25	0-8-0	5-1879
88	4-6-0	9-1877		65	0-8-0	5-1879
412	4-6-0	3-1878		105	0-8-0	6-1879
50	0-8-0	3-1878		4	0-6-0	8-1879
80	0-8-0	4-1878		7	0-6-0	8-1879
42	0-6-0	6-1878		8	0-6-0	10-1879
47	0-6-0	8-1878		113	4-4-0	10-1879
70	0-6-0	10-1878		118	4-4-0	11-1879
104	0-6-0	11-1878		119	4-6-0	12-1879
122	4-4-0	12-1878		60	4-6-0	12-1879
1	0-4-0	3-1879		72	4-6-0	2-1880
2	0-4-0	4-1879	,	43	4-6-0	3-1880
				411	4-4-0	(5-1880

With the burning of "culm" so successfully, many locomotives on the "hard coal" roads, originally built with narrow fireboxes, were rebuilt with boilers of the Wootten or modified Wootten types.

In 1888 the motive power department turned an about face and reverted to long, narrow fireboxes to burn lump anthracite, while the wide-firebox Wootten boiler locomotives were proving successful. Thirteen 4-4-0's were received from Baldwin that year, in addition to fifteen Consolidations, that were in a few years rebuilt with Wootten boilers. After these two lots, motive power orders were for wide firebox loco-

motives for the next ten years.

There is an interesting sidelight in connection with locomotives #960-966, part of the thirteen noted above. When #961 was put on the scales, at the Baldwin plant, on April 16, 1888, she weighed 91,300 pounds on drivers and 122,900 pounds total. On specification she was to weigh 77,000 pounds on drivers with a total weight of 113,000 pounds. Naturally the railroad objected to the excess weight and consequently #960-966 were equipped with straight top boilers, instead of wagon tops, and the number of tubes were reduced, in all bringing the figure down to 15,000 pounds less. This work was done in the Baldwin shops. The seven wagon top boilers were placed on the Consolidations, #944 to 950, then under construction by Baldwin. Most of these classes were rebuilt with Wootten boilers prior to 1900, and in the case of the Americans #960-966, the boiler barrels were saved, but the weight put on the drivers after the second change from the original locomotive, exceeded not only the original specified weight, but also the weight on drivers of the locomotives as first built.

In the 1880's and 1890's the Reading's 4-4-0 type locomotives were maintaining some remarkably fast schedules, especially between Philadelphia and New York and between Philadelphia and Atlantic City. Not only had #366 and #206 turned in unusual bursts of speed, but #1012 built by Baldwin in May, 1889, hauled seven "heavily loaded" coaches from Camden to Atlantic City, 55.5 miles in 59 minutes and 40 seconds. Locomotives like #1012 were the first of the heavy power used

on the Atlantic City Railroad.

Although the Americans had made these very fast runs, the Reading was investigating the possibilities of three other different types for high speed passenger service. They were the Columbia 2-4-2, Bicycle 4-2-2, and Atlantic 4-4-2 types. Thirteen of the Columbia type were received from Baldwin in 1892 and 1893; all with Wootten boilers, center cabs, Vauclain Compound Cylinders, and driving wheels 78 inches in diameter, for fast New York Branch service. The compound cylinders were but partly satisfactory and there arose throughout railroad circles a strong objection to the two wheeled engine truck, which was not considered safe for high speed. The Reading, after receiving the first order, cancelled most of the second order, as some of the advantages of the Columbia over the American type did not materialize. Nevertheless, on certain occasions, with the Vauclain Compound Cylinders properly maintained, unusual runs were made, and the type gained the nick-name of the "Flying Dutchman." In January, 1893, #618; Baldwin, January, 1892; made a run from Wayne Junction to Elizabeth, New Jersey, 75 miles in 75 minutes. This class in the early 1900's underwent a variety of conversions, including among them, three different wheel arrangements-2-6-0, 4-6-0, and 4-4-2, and all were eventually rebuilt with single expansion cylinders. Only one, even as rebuilt, remained in service for a long time.

The second new type of locomotive tried for passenger service was the Bicycle or 4-2-2 type. Experiments with locomotives with this wheel arrangement dated back to 1880 when #507 arrived from Baldwin's—the 5000th locomotive to be constructed by those builders. This locomotive had a wide firebox on which the cab was set, and caused some interest at the time of its trials on the New York Branch. On one of the few test runs made, #507 hauled four cars from Philadelphia to Jersey City, 89 miles in 98 minutes, but she was soon returned to the builder and sold to the Eames Vacuum Brake Company who trans-

ported her to England.

Again in 1895 and 1896 after having had some experience with the Columbias running with the parallel rods removed, two 4-2-2 type locomotives, #385 and #378 were built by Baldwin. Their boilers varied slightly in size and although speedy and good steamers, their comparatively low hauling capacity, due chiefly to limited weight on drivers, proved a serious handicap. Consequently these locomotives were rebuilt into 4-4-0's in 1904 after the Atlantics had fully proven their

worth.

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One of the greatest achievements for the time, in the development of the high speed passenger locomotive, was attained with the introduction of the Atlantic type. Two of this type, #1026 and #1027 with Wootten fireboxes, were built by Baldwin in 1896 for the nationally famous seashore service between Camden and Atlantic City. These were designed to compete with the Pennsylvania Railroad and to cover the 55.5 miles in sixty minutes with eight cars, and fifty minutes with six cars. In July and August, 1897, #1027 turned in a remarkable day by day speed record. On July 14th, which was her fastest time, the 55.5

mile run was made in 46½ minutes, with five cars. Newspaper accounts noted the day after, that the distance from Hammonton to Elwood, 6.2 miles, was covered in 3½ minutes or at the rate of 106 miles per hour. Train dispatchers sheets do not verify this.

A letter written by Reading president, Theodore Voorhees, to the engineer of #1027, Charles H. Fahl, best describes the performance of the

Reading's first scheduled mile a minute (or better) run:

"Your performance with Train Number 25 during the past two months deserves special commendation. This train, now withdrawn for the season; was scheduled to run from Kaighn's Point, Camden, to Atlantic City, 55.5 miles in 52 minutes, or at the rate of 64 miles per hour. Owing to the inability of the ferry boats to reach Camden on scheduled time, the train always left late, the average detention from this cause being upwards of two minutes. On the other hand, you so ran the train that this loss was invariably made up, the train arriving at Atlantic City always ahead of time, this average also being two minutes, so that the record shows that for the 52 days the train ran, from July 2nd to August 31st, the average time consumed on the run by you was 48 minutes, equivalent to a uniform rate of speed from start to stop of 69 miles per hour.

"On twenty-two days the train consisted of five cars, on thirty days, it was made up with six. On no occasion did it fail to arrive at Atlantic

City on time.

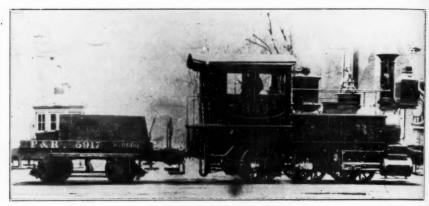
"This performance, I believe, has not heretofore been equalled in the history of railway service either in this country or abroad. It is one of which the management is proud and is a credit to the track, the equipment and especially to the skill and ability with which you performed the task . . ."

On July 2, 1898 Train Number 25 with #1028, celebrated its initial run of the season by clipping the record of the year before to 45¼ minutes. The train was made up with a combination car, three day coaches, and a Pullman. Samuel M. Vauclain was a passenger on this run made at an average speed of 72.9 miles per hour.

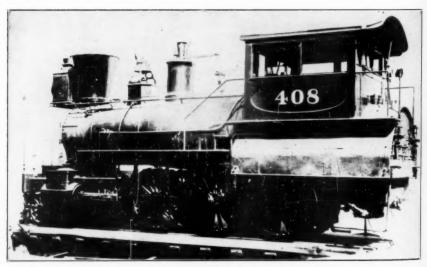
The Reading continued to order and build locomotives of the Atlantic type for the following twenty years, of which, more will be

mentioned in the 1900-1944 group history.

Another drastic change in the Philadelphia and Reading motive power was given trial near the close of this period. This was the experimental use of soft coal as fuel. The demand for small sizes of anthracite, which was now being prepared and burned more successfully, resulted in an increase in its market value, which eventually exceeded that of soft coal, and there was a general trend among the hard coal roads to sell the small anthracite and use soft coal in its stead. The Reading was no exception, and in 1898, received the first of its L-3 class for fast freight service using soft coal for engine fuel. These were followed by the I-7-a class in 1899 and the L-4-b class in 1900. Also, just at the turn of the century, plans were made to rebuild some of the wide firebox consolidations to end cab soft coal burners. These were later the I-3-a class.



P. & R. #334—Reading Shops, 1871.



P. & R. #408—Reading Shops, 1877. First locomotive with Wootten boiler.

Thus, this second period in the motive power history of the Reading was one of important changes and improvements. Marked by the adoption and improved design of the Wootten boiler for burning fine anthracite, it closed with a rather limited attempt to revert to the narrow firebox and the use of soft coal. The replacement of the American type by the Atlantic for certain kinds of service had definitely begun, and although the Ten-Wheeler was by no means abandoned it was transferred to fast freight duty and the heavy hauling was taken over by the Consolidations. The use of the Vauclain Compound cylinders, which had a most promising start in the 1890's reached its zenith by the close of the century. Few were applied after 1900 and by 1905, all 128 locomotives had been converted to single expansion. The latter part of the period is also punctuated by a number of record breaking maximum speeds, not only for the Reading, but the country as well.

The practice of building locomotives at Reading continued until 1886 when a change of policy was made on account of the increasing number of locomotives in service and the lack of shop facilities. After that time the shops were devoted exclusively to rebuilding and repairing

locomotives, and the new ones were purchased from Baldwin.

## Locomotives Built (new) at Reading Shops, Reading, Pa., from December 1, 1871 to April, 1900\*

12-1871— 1	1879—12
1872—28	1880— 8
1873—25	1881—12
1874-16	1882—13
1875—10	1883—21
1876—15	1884—21
1877— 4	1885-4
1878—10	1886— 9
Total-	-209 locomotives

## 1871-1900 Numbering

The locomotives included in the list from 1871 to 1900 are arranged in numerical order, that in 1871 was based upon, with few exceptions, the date of the locomotive first running on the Philadelphia and Reading. The numbers are shown in the first left hand column. If there should be two or more locomotives listed with the same number, the second and third numbers are locomotives that replaced the first. An additional line pertaining to a locomotive of the same number, indicates a rebuilding after that locomotive was numbered in December, 1871.

The second column generally lists the former name used in the 1836-1871 classification and the numbers are those assigned in 1900.

In the original numbering made in December, 1871, the lowest number was assigned to the oldest locomotive, and the numbers increased

<sup>\*</sup>Excludes at least one built for the Central Railroad of New Jersey.

on the basis of the chronological order. But it must be remembered that the date used was based upon the date that the locomotive was first run on the Philadelphia and Reading, rather than the construction date. A sample of this—the engines of the East Pennsylvania Railroad were acquired in May, 1869, and while all were built prior to that time, the oldest in 1859 as it happened, they were numbered on the basis of being "first run" in May, 1869 which was true as far as the Philadelphia and Reading records were concerned.

As to the Philadelphia and Reading's own engines, the date "When First Run" or the date of an engine's most recent rebuilding, was the determining factor in the assignment of its number. For example, an engine although built in 1852 and rebuilt in 1865, would have been numbered with those built in 1865. Generally speaking, locomotives from absorbed or leased lines were given a block of numbers immediately

following the highest number in use at that time.

As engines in this group were disposed of, their numbers were filled with new engines, thus defeating the purpose of chronological numbering, and in April, 1900, a general renumbering and new classification took place, in which blocks of numbers were assigned to each of the

classes.

Although details are meager, the Philadelphia and Reading is known to have established a classification prior to 1867. Instead of assigning shop numbers to those locomotives built new at Reading in the order that they were built, shop numbers were applied to the standard classes designed by Millholland. For example, the locomotive Kentucky was the first of her type built at Reading and she was classified Kentucky Class #1. The second locomotive of that class was the Girard which was assigned Kentucky Class #2, and so on. This arrangement of classifying also applied to all other standard classes built at Reading Shops including the Hiawatha that originated in 1859. The class shop number system continued, in essence but with many minor variations so long as locomotives were built at Reading and until the new classification was established in 1900. Letters such as D for the 4-4-0-'s, were assigned to various existing wheel arrangements probably during the 1880's, and replaced to a large degree the old shop numbering system, but earmarks of the original setup remained evident.

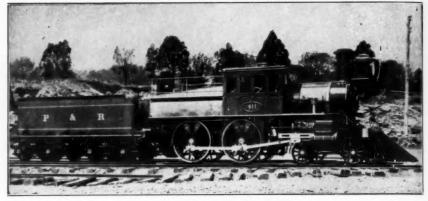
In the early 1880's "O" was applied to many locomotives on the verge of retirement, although some carried their "O" as a prefix to

their regular engine numbers for several years.

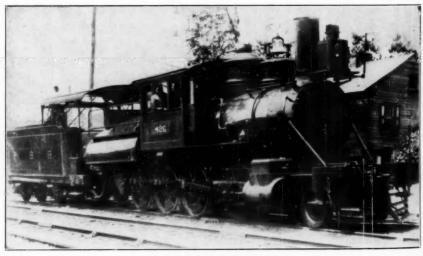
## Locomotives-1871-1900

No.	Name & 1900 # Rocket	Builder	Da	te Type	e Cyl.	Dr	. Wt.
1	Rocket	P & R*	186	0-4-0	10½x16"	413/4	26550
1	1201	D 9. D	preserved at F 3-1879	0-4-0W	9x16"	35"	31200
1 2	101 Engineer	Baldwin 1579 P & R*	3-1898 1863	3 4-4-0 3 0-4-0T		60"	80000 27225
2		D & D	A_1970	0 4 000	13x16"	35"	31200
2	Sold—Phila & Co 1231 Planet	nshohocken St	one Quarry Co.	8-1895 0-4-0	14x22"	44"	60000
3	Planet	P & R*	1863	040	?	?	26550
3	Planet Sold—W. B. Ogd	en, 7-30-1872	6-1872	0-4-0	9x16"	34"	25500
,		ran	Sc. 6-1893	0-4-0	9810	24"	27700
3	1232	Baldwin 14918	6-1890	) ()-4-()	14x22"	44"	60000
4	Tuscarora	P & R*	6-1855 Sc. 1879 8-1879 1848	?	?	7	31050
4	1269	P&R	8-1879	0-6-0W	16x18"	43"	61600
5	Schuylkill Sold—Schuylkill 489	P & R*	1848	4-4-0	7	3	33075
5	Sold—Schuyikili 6	X Susquenanna	K. K., 1872	4-6-0	18x24"	54"	81500
6	Shamokin	P & R*	11-1855	4-4-0	?	?	37125
6		P&R	Sc. 1881 4-1882		1610#	43"	61600
0			Sc. 5-1899		16x18"	4)	01000
6	991	Baldwin 1709			22x28"		165000
7	Huron	P & R*	11-1863 Sc. 1879		?	?	34300
7	1270	P&R	8-1879		16x18"	43"	61600
8	Osceola	P & R*	1849		?	5	33300
8		P&R	Sc. 1879 10-1879		16x18"	43"	61600
	1271	P & R*		0-6-0W	16x18"	43"	69000
9	Erie	P & R*	1863 Sc. 1876		?	?	38700
9		P&R	8-1876		18x24"	54"	81500
	507	D 2 D*		4-6-0	18x24"	54"	95000
10	United States	Baldwin	196 6-1844 Sc. 1872		15x18"	46"	41850
10	1260	P&R	9-1872		16x18"	43"	63500
11	Atlantic	P & R P & R*	1847	?	?	?	45225
11		P&R	Sc. 1872 5-1872	4-6-0	18x22"	48"	77000
	Sold-Poulterer &	Co.	1-1899				
11	961 Constitution	Baldwin	16414 12-1898		22x28"		163000
12	Constitution	baidwin	231 6-1845 Sc. 1872	0-6-0	15x18"	46"	43820
12		P & R	7-1872 Sc. 12-1897	4-4-0	17x22"	61½"	73300
12	556	Baldwin	15900 5-1898	4-6-0	14&24x26"	61"	152000
13	St. Lawrence	Baldwin	230 5-1845	0-6-0	15x18"	46"	43820
13	517	P&R	8-1874 10-1890	4-6-0	18x24"		81500
14		P & R P & R* P & R*	9-1846	2	18x24"	?	103400 36450
	Sold—Jamesville	& Washington	Land & Lumb	er Co., 6	-1872		
14		P&R	7-1872	0-4-0	9x16"	34"	25500
14	557	Baldwin	Sc. 4-1897 15901 5-1898	4.6-0	14&24x26"	61"	152000
-							

No.	Name & 1900 Sanatoga	# Builder P & R*		Dat 6-1847	e Type	Cyl.	$D_1$	r. Wt.
11	Sanatoga	I a K	Sc.	1872	4	1	3	72200
15	441	P&R	00.	9-1872	4-6-0	18x22"	48"	85000
16	Monterey	P & R*		11-1857	?	?	?	44775
			Sc.					
16		P & R		9-1875	4-6-0	18x24"	54"	01100
	506	P & R*		3-1899		18x24"		
17	California	P & R*	C -	11-1855	7	3	?	52200
17	1262	D & D	Sc.	1874	060	16-10#	43"	64000
18	1263 Maine	P & R	240	3-1874 7-1849	0-6-0 4-4-0	16x18" 16x20"		
10	Maille	Hinkley	Sc.	1872	4-4-0	10320	14	11317
18		P&R			4-6-0	18x22"	48"	85000
	465	P & R*	Sc.	0 1012	4-6-0	18x22"	48"	
19	Hudson	P&R		10-1850		?	?	44000
			Sc.	1874				
19	32				4-6-0	18x24"	54"	81500
	Sold-Atlantic	City R. R. #10. Baldwin	22,	2-1889				
19	1453	Baldwin	12611	4-1892	2-6-0	18x24"	54"	94200
	From Hunter's	Run & Slate Be	elt #5-L	ancaster	& Readi	ng 5, 189	)4	
20	Delaware	P & R*			0-8-0	7	?	65250
			Sc.	1881				
20	755	Baldwin	5744	7-1881	2-8-0W	20x24" 5	01/2"	
21	Allegheny	P & R*		11-1851	0-8-0	?	?	53775
21	Sold—Reading	& Columbia R.	R.	1874	000	10 224	434	70000
21	1424	P&R		7-1875	0-8-0	18x22"	43"	
22	Wisconsin	P & R*		1-1871	0-8-0	18x22"	43"	79800
22	Renumbered 14			7 1053	260	7	7	60525
23	Wyomissing	P&R*	Sc.	7-1852	2-6-0	2	r	60525
23	140	P&R	Sc.	1876	4-4-0	17x22"	601/1	75400
24	Pawnee	P & R		8-1852	2-6-0	7	0072	60525
24	rawnee	ran	Sc.	1874	2-0-0	4	1	00727
24		P&R	JL.	5-1874	4-6-0	18x24"	54"	81500
27	514	D & R*		2-1074	4-6-0W	18x24"		103400
25	514 Ottawa	Baldwin	779	8-1857	0-8-0	18x20"	?	?
	From Little Sch	mylkill R R "	Schuvlkil	1"?-Sol	d R & C	R R 187	76	
25	Trom Estere Cer	P&R	centary min	5-1879	0-8-0W	18x22"	43"	80000
	1435	P & R*		2-1892	0-8-0W	18x22"	43"	94000
26	Octorara	P&R		5-1853	2-6-0	?	?	62775
			Sc.	1874				
26	496	P & R		5-1874		18x22"	54"	81500
27	Metamora	P & R		6-1853	2-6-0	?	3	62775
			Sc.	1875				
27	1427	P&R		8-1875		18x22"	43"	79800
28	Aramingo	P & R	_	7-1853	2-6-0	7	?	62775
			Sc.	1874				0.1500
28	85	P&R	W #100	5-1874	4-6-0	18x24"	54"	81500
	Sold—Reading	& Columbia K.	R., #109	0, 4-1883	4 4 000	10./ 22.	co	
28	187	P&R			4-4-0W			
29	Wissahickon	P & R	C -	8-1853	2-6-0	?	?	62775
20		D & D	Sc.	1873	000	10,,220	43"	79800
29	1420	P & R		2-1874 9-1888		18x22" 18x22"	43"	83200
30	1430 Comanche	D & D		9-1888	2-6-0	18X22"	43"	62775
20	Comanche	I & K	Sc.	1875	2-0-0	ī	1	02117
30	1425	P & R	St.		0-8-0	18x22"	43"	79800
31	Seneca	P & R		10-1853	2-6-0	7	7	62775
21	Scheea	i a n	Sc	12-1875	2-0-0		6	06117
			St.	14-10/7				



P. & R. #411-Reading Shops, 1880.



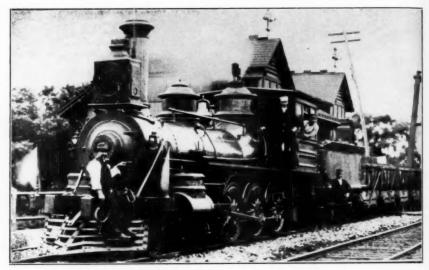
P. & R. #426—Reading Shops, 1380.

No.	Name & 1900 #	Ruilder			Date	Tark		Cyl.	n.	. Wt.
31	**					160	Б	18x24"	54"	
21	86 Sold—Reading & 558	P & R	D	D #109	7 11 199	4-0-0		10X24"	74"	09000
31	550 - Reading &	Raldwin		15002	5_1808	460		4&24x26"	61"	152000
32	Tecumseh	P & R		17902	11-1853	2-6-0	1.	?	5	
32	i ecumsen	I a K		Sc.	1873	2-0-0			3	02117
32	497	P&R		Se.	6-1874	4-6-0		18x24"	54"	81500
33		P & R*			3-1871	0-8-0		18x22"	43"	
	1432	P & R*			- 1011	0-8-0		18x22"	43"	
34	Sciota	P&R			11-1854	2-6-0		?	?	62775
	0010111			Sc.	1873					
34	1422	P&R			11-1873	0-8-0		18x22"	43"	79860
35	Wabash	P&R			11-1854	2-6-0		?	?	62775
				Sc.	1872					
35		P&R				4-6-0		18x22"	48"	85000
36		P & R*			4-4871	0-8-0		18x22"	43"	79800
	Renumbered 1420									-
37	Harrisburg	P & R*			2-1871	0-8-0		18x22"	43"	79800
				Sc.	12-1898					4.63000
37	962	Baldwin		16415	12-1898	2-8-0		22x28"		163000
38	Juniata	P & R			6-1855	2-6-0		3	3	62775
20	440	D . D		Sc.	1872	1.0		10 000	40	05000
		P&R			8-1872	4-6-0		18x22"	48"	85000
39	Pocahontas	Baldwin*		C.		0-8-0			3	52550
39	1262	D & D		Sc.	1874	060		16-19#	43"	64000
40	Florida	P & R P & R*			4-1874 9-1855	0-6-0 0-8-0		16x18"	7	52200
40	riorida	P & K		Sc.	1874	0-0-0		r.	1	92200
40	498	P&R		SC.	9-1874	4-6-0		18x24"	54"	81500
41		P & R*				0-8-0		7	?	56690
41	Amazon	Lau.		Sc.	1873	0-0-0		1	1	70090
41		P&R		SC.		0-8-0		18x22"	43"	79800
71	1431	P & R*				0-8-0		18x22"	43"	83200
42		P & R*			11-1856	7		?	7	50400
74	Coldinous	1 01 10		Sc.	1878			•		20100
42	1266	P&R		00.		0-6-0W	1	16x18"	43"	61600
43	Yorktown	P & R*				0-8-0		?	?	55155
-				Sc.	1880					
43		P&R			3-188G	4-6-0W		18x24"	54"	98300
	511	P & R*				4-6-0		18x24"	54"	95000
44	Petrel	P & R*			1863	7		?	?	63200
	Renumbered 044,	1883,		Sc.	9-1888					
44	149	Baldwin		6789	4-1883	4-4-0W	18	8½x22" (	511/2"	99500
45	Carolina	P & R*		_	6-1857	?		?	?	52425
	***			Sc.	1877					01500
45	504	P&R			9-1877	4-6-0		18x24"	54"	81500
46	Missouri	P & R*			7-1857	10		2"	3	52425
40		D C D		Sc.	1874	100		10-24#	F 4m	01500
46	F1/	P&R			7-1874	4-6-0		18x24"	54"	81500
47		P & R*				4-6-0W		18x24"		103400
47	New York	P & R*		Sc.		0-6-0		?	?	53550
47		P&R		Sc.	1878 8-1878	0-6-0W		16v19"	43"	61600
4/		P&R*				0-6-0w		16x18" 16x18"	43"	61600 67900
48		P & R*				0-8-0		10X19	43"	56475
48	Rio Grande	I a IC		Sc.	1879	V-0-U		1	1	204/2
48		P&R		Sc.		0-4-0W	2	?	?	53000
40		1 00 11		Sc.	7-1897	0-1-0W	8	1	1	75000
48	559	Baldwin		15903	5-1898	4-6-0	14	&24x26"	61"	152000
49	Vera Cruz	P & R		17903	8-1857	2	4.4	?	9	59625
19	Renumbered 049.			Sc.	9-1888	*		•	4	11041
				~						

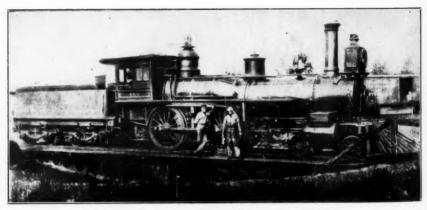
No.	Name & 1900 #	Builder		Date	Type	Cyl.	Dr	Wt.	
49		Baldwin	6799	6-1883		181/2×22"			
	181	P & R*		3-1898	4-4-0W	181/2x22"	611/2"	97000	
50	Texas	P&R		1858	0-8-0	?	?	58725	
			Sc.	1878					
50	1433	P & R		3-1878	0-8-0W	18x22"	43"	80000	
51	Ohio	P & R*		8-1858	0-8-0	7	3	61875	
			Sc.	1872					
51	490	P & R		5-1873	4-6-0	18x24"	54"	89000	
52	Warrior	P & R		10-1858	0-8-0	?	?	50400	
			Sc.	1881					
52	1274	P&R		8-1881	0-6-0W	16x18"	43"	61600	
53	Oregon	P & R*		12-1858	0-6-0	?	3	47700	
			Sc.	1881					
53	733	Baldwin	5564	3-1881	2-8-0W	20x24"	50½"	114000	
54	Maryland	P & R*		4-1850	0-8-0	?	?	61875	
			Sc	1880					ž
54	1273	P&R		11-1880	0-6-0W	16x18"	43"	61600	
55	Pacific	P & R*		5-1859	0-6-0	7	3	49725	
	and the second		Sc.	1831					
55	734	Baldwin	5581	4-1881	2-8-0W	20x24"		114000	
56	Taunton	P & R*		5-18/1	4-4-0	15x20"	61"	68000	
			Sc.	2-1895					
56	1233	Baldwin	14919	6-1896	0-4-0	14x22"	44"	58000	
57	Minnehaha	P&R		6-1859	4-4-0	?	?	56690	
	Renumbered 057,								
57		Baldwin	6848	7-1883		18½x22"			
	182	P & R*		3-1899		18½x22"	611/2"	97000	
58	Hiawatha	P & R		6-1859	4-4-0	?	?	56690	
			Sc.	1883					
58	150	Baldwin	6758	5-1883	4-4-0W	18½x22"	611/2"	99500	
59	Phoenix	P & R		11-1859	3	?	?	71000	
			Sc.	1883					
59	1208	P&R		6-1883	0-4-0	14x22"	44"	58000	
60	Ontario	P & R*		11-1859	0-6-0	?	7	49725	
			Sc.	12-1879					
60		P & R		12-1879	4-6-0W	18x24"	54"	98300	
	515	P & R*		12-1897	4-6-0W	18x24"	54"	103400	
61	Active	Baldwin	942	7-1860	0-4-0	11x16"	?	32400	
	Renumbered 061,		Sc.	3-1886					
61	1209	P&R		6-1883	0-4-0	14x22"	44"	58000	
62	Virginia	P & R*	-		0-6-0	7	?	50625	
			Sc.	1881					
62	735	Baldwin	5552	3-1881	2-8-0W	20x24" 5	01/2"		
63	Baltimore	P & R*	-		0-8-0	2	2	60525	
-	***		Sc.	1876				00000	
63	500	P & R			4-6-0	18x24"	54"	89000	
64	Fawn	P&R			4-4-0	1	3	40500	
	Renumbered 064,		Sc.	11-1888	0 < 0111			es ess	
64	1278	P&R			0-6-0W	16x18"	43"	61600	
65	Hercules	P & R*			0-8-0	3	3	63225	
		D 0 D	Sc.	1879	0.0.037	10 00-	434	00000	
65	1434	P & R			0-8-0W	18x22"	43"	80000	
66	Chesapeake	P & R*		6-1861	?	2	3	59400	
			Sc.	1881		00 04-	0- 1-	111000	
66	-	Baldwin	5539			20x24" 5			
	730	P & R*				20x24" 5	01/2"		
67	Mohawk	P & R*		9-1861	?	?	3	53525	
-	1005	D 0 D	Sc.	1883	0.40	14 000	4.44	20000	
67	1205	P & R		4-1883	0-4-0	14x22"	44"	58000	

No.	Name & 1900 #	Builder		Data 10-1861 1881	e Type	Cyl.	Dr	. Wt.
68	Niagara	P & R*		10-1861	0-6-0	?	?	51425
			Sc.	1881				
68	1276 Genesee Renumbered 069.	P&R		11-1881	0-6-0W	16x18"	43"	61600
69	Genesee	P & R*	-	11-1861	?	?	?	53325
				11-1888				
69	151	Baldwin P & R*	6805	6-1883	4-4-0W	18½x22"	611/2	99500
70	Atlas	P & R*		11-1861	0-8-0	?	?	62550
			Sc.	1878				
70		P&R		10-1878	0-6-0W	16x18"	43"	61600
71	Union	P & R		3-1862	?	3	?	78075
			Sc.	1883			,	
71		P & R		4-1883	0-4-0	14x22"	44"	
72	Elmira	P & R*	_	7-1862	4-4-0	?	?	60525
			Sc.					
72		P & R		2-1880	4-6-0W			98300
	520	P & R*		-	4-6-0W			103400
73	Auburn	P & R P & R* P & R*		8-1862	4-4-0	?	3	60525
			Sc.	1880				
73	-	Baldwin	5536	3-1881		20x24"		
	731	P & R*		2-1899		20x24" 5	0"1/2	
74	Dove	P & R	-	10-1862	4-4-0	?	7	43425
	Renumbered 074,	1884	Sc.	9-1884				
74	1210	P&R		8-1884	0-4-0	14x22"	44"	58000
75	Mars	P&R		11-1862	4-4-0	. ?	. ?	51425
me	731 Dove Renumbered 074, 1210 Mars Sold—Atlantic Ci 992 Dakota	ty R. R.	1000	2-1889	Renum	bered 10	05	
75	992	Baldwin	17097	10-1899	2-8-0	22x28"	56"	
76	Dakota	P&R	-	1-1863	4-4-0W	?	?	56690
	Renumbered 076,	Baldwin P & R P & R* P & R P & R	Sc.	2-1886				
76	152 Nevada 450	Baldwin	0/00	5-1883	4-4-0	18½x22"	611/2"	99500
77	Nevada	P & R		3-1863	4-6-0	18x22"	46"	68400
70	450	P & R*		2 1062	4-6-0	18x22"	48"	93800
78	Wyoming	P&R		3-1863	4-6-0	18x22"	46"	00000
70	Nevada 450 Wyoming 462 Anthracite From LSRR 1275	P & R*			4-6-0	18x22" 18x22"	48"	
79	Anthracite	L. S. R. R.	0		?	?	?	50850
79	From LSKK	D e D	Sc.	1881	0 6 0337	16 100	4.4**	F0000
80	From LSRR 1275 Beaufort From LSRR	P & K		9-1881	0-6-0W	16x18"	44"	58000
80	Deautort LCDD	Norris-Phila	C -	1070	?	?	?	43650
80	From LSKK	D & D	Sc.	1878	0.0.011/	1022#	434	00000
00	1446	P & R P & R* L. S. R. R.		4-1878	0-8-0W		43"	80000
81	Caroline	LEDD			0-8-0W	18x22"	43"	
01	From LSRR		Sc.	1881	r	r		53325
81	FIORI LINK	Baldwin	5544	3-1881	2 0 031/	20x24" 5	01/11	114000
01	732	D & D*	7744	1-1899		20x24" 7	07/2	114000
82	Mountaineer	P & R* P & R		4-1863	0-8-0T	20x24" 5	072	72250
02	Modificalifeet	ran	Sc.	1882	0-0-01	1		73350
82		Raldwin	6356	9-1882	2 9 0337	20x24" 5	01/#	114000
788		Baldwin P & R*	0270	9-1002	2-0-UW	20x24" 5	072	114000
83	Ringgold	Norris Phila			2-0-0W	20X24	0/2	64350
83	Kinggoid	D & D		11-1872	060	16-10"	13"	
0)	Sold-Pa. Nut &	P & R* Norris-Phila P & R Bolt Co		12-1809	0-0-0	16x18"	43"	64000
83		Doit Co.		10-1800	280	22-20"	560	165000
84	993 Sumpter From LSRR	Norris-Phila	17070	10-1099	2-0-0	22x28"	50.	42200
04	From LSRR			1872	1	\$	ŗ	72200
84	I TOIL LOKK	P&R	Sc.	4-1872	4.6.0	18x22"	48"	84000
04	Sold-Pa. Nut &	Bolt Co		6-1899	4-0-0	10122	40	04000
84	994	Baldwin	17000	10-1899	2.8.0	22x28"	56"	165000
85	Idaho	P & R	11027	5-1863	2-8-0 0-8-0	18x22"	36"	72100
0,	Renúmbered 085,		Sc.	2-1889	0-0-0	IOALL	30	12100
85	1214	P&R	JC.	10-1884	0-4-0	14x22"	44"	58000
0-				10 1004	0-1-0	1 7744	11	10000

No.	Name & 1900 #	Builder			Date	Type	Cyl.	Dr.	Wt.
86	Fldorado	P&R		C .	6-1863	4-6-0	18x22"		68600
86	Renumbered 086,	1885, P & R		Sc.	4-1886 10-1884	0-4-0	14x22"	44"	58000
87	1215 Sonora 451 Arizona 467	P & R			6-1863	4-6-0	18x22"	16"	68600
0,	451	P & R*			0 1005	4-6-0	18x22"	46"	91300
88	Arizona	P&R			7-1863	4-6-0	18x22"	46"	68600
	467	P & R*			9-1877	4-6-0W	18x22"	48"	89200
89	Antietam 479	P & R			8-1863	4-6-0	18x22"	46"	68600
	479	P & R*			0 10/2	4-6-0W		48"	98000
90		P & R			8-1863	4-6-0	18x22"	46"	68600
00	Renumbered 090,	1884 D 6 D		Sc.	9-1884	0.40	1422#	44"	50000
90 91	1211 Calasta	P & R P & R*			8-1884 5-1871	0-4-0	14x22" 18x22"	43"	58000 79800
91	Celeste	P & R+		Sc.		0-0-0	10X22"	45"	19000
92	Monitor	P&R		Sc.	9-1863	4-6-0	18x22"	46"	68600
94	477	P & R*			9-1007	4-6-0W		48"	98000
93	Pennsylvania	P & R*			1870	0-10-0T		43"	80775
"	1 chilisy i vania	1 44 14		Sc.	11-1885	0 10 0 1	201120		00117
93	1449	P & R		00.	11-1885	0-10-0W	/20x26"	423/4"	107000
94	Tip Top	Baldwin		871		0-4-0	11x16"		35775
	Pur. from G. D. C	Coleman		Sc.	7-1884				
94	161	P & R			7-1884	4-4-0W	181/2x22"	611/2"	98700
95	161 Chicago	P&R			11-1863	4-6-0	18x22"	46"	68600
				Sc.	8-1884				
95	162	P & R			7-1884		18½x22"		
96	Gettysburg	P & R			11-1863	4-6-0	18x22"	46"	68600
00	Renumbered 096,			Sc.	5-1886	4 4 0337	21-220	(0=/#	105000
96	208	P & R			10-1884		21x22"		
97	Lebanon	P & R		C -	11-1863	4-6-0	18x22"	40"	68600
97	Renumbered 1051 209	'P & R		Sc.	6-1885	4 4 000	21x22"	691/#	105000
98		P&R			6-1885 12-1863	4-6-0	18x22"		68600
90	Luzerne Renumbered 1052			Sc.	6-1885	4-0-0	10322	40	00000
98	210	P&R		St.	6-1885	4-4-0W	21x22"	681/1	105000
99		P & R			1-1864	4-6-0	18x22"		68600
	Описсипоови			Sc.					00000
99	211	P&R		00.	7-1885	4-4-0W	21x22"	581/2"	105000
100	Vicksburg	P&R			1-1864		18x22"		
	Renumbered 0100				8-1834				
100	157	P&R			5-1884	4-4-0W	18½x22"	611/2"	97800
101	Washington	P & R			4-1864	4-4-0	P	3	56690
	Renumbered 0101			-	1883	4 4 0337	10= / 00=	C1= /m	00500
101	1	Baldwin P & R*		67/3	5-1883		18½x22"		
100	183	P&R*			1-1899		18½x22"		
102	Kentucky	P&R	1 0	· C	5-1864	0-10-0	20x26"	4244"	88700
102	Sold-Phila & Ro	Paldwin	1 oc	Iron C	12 1909	2-8-0	22x28"	0.09	163000
102	963 MII #1	Baldwin		311	7-1847		13½x18"	42"	34875
103	MH #1	Baldwin		Sc.	1883	0-0-0	17/2110	42	74017
103	1282	P&R MHR		Sc.	4-1883	0-6-0W	16x18"	43"	61600
104	MH #3	M. H. R.	R *		1857		131/2×20"	7	37125
104	1411 #2	141. 11. 14.	14.	Sc.	1878	000	17/2/100		,,,,,,
104	1268	P&R				0-6-0W	16x18"	43"	61600
105		M. H. R.	R.*		1868	0-6-0		?	36000
	n			Sc.	1879				
105		P&R			6-1879	0-8-0W	18x22"	43"	80000
	1430	P & R*			-	0-8-0W	18x22"	43"	94000
106	MH #5	M. H. R.	R.*	_	1869	0-6-0	?	?	36900
				Sc.	1883	0 < 011.	16 10	424	(1/00
106	1291	P & R			9-1893	0-6-0W	16x18"	43"	61600



P. & R. #441-Baldwin, 1874. At Logan, Pa., 1884, with ballast train.



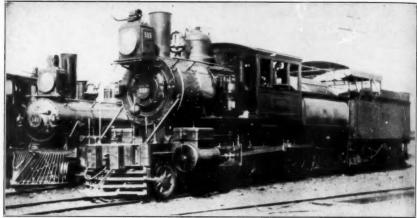
P. & R. #455-Baldwin, 1867. At Newtown, Pa., about 1836.

No.	Name & 1900 # MH #6	Builder		Dat	е Туре	Cyl.	$D\tau$	. Wt.
107	MH #6 995 MH #7 1423 MH #8 1261 MH #13 742 MH #14 1284 MH #15 737 MH #16 175 MH #16 175 MH #17 738 MH #18 739 MH #18	P & R*		1867	4-4-0	3	3	38250
107	005	Dalduda	Sc.	7-1890	200	2220#	E C 11	165000
108	MH 47	M LI D D *	17100	10-1099	0.8.0	22X28"	20"	42750
100	14111 #3	м. п. к. к.	Sc	1873	0-0-0	ŧ	\$	42/70
108	1423	P. & R.	JC.	11-1873	0-8-0	18x22"	43"	78900
109	MH #8	Baldwin	329	4-1848	0-6-0	141/2×18	42"	36000
			Sc.	1872		,		
109	1261	P & R		10-1872	0-6-0	16x18"	43"	64000
110	MH #13	P & R*		1867	0-8-0	7	2	56250
110		D-14-d-	Sc.	1881	2.0.0337	20 244	PO2 /#	114000
110	742	D & D*	2009	9-1001	2-8-0W	20X24"	701/2"	114000
111	MH #14	P & R*		1868	0-8-0	>	>	65250
***	2121 #11	1 4 16	Sc	1883	0-0-0		1	0,2,0
111	1284	P & R	00.	5-1883	0-6-0W	16x18"	43"	65700
112	MH #15	P & R*		1867	0-8-0	?	?	56250
			Sc.	1881				
112	737	Baldwin	5615	5-1881	2-8-0W	20x24"	501/2	"114000
113	MH #10	P & K*	C -	1867	0-8-0	7	1	56250
113		D & D	Sc.	10.1970	4.4.0337	101/22211	611/1	96000
113	175	P & R*		3_1808	4-4-0W	1072X44"	611/2	101500
114	MH #17	P & R*		1868	0.8.0	7	7	65250
			Sc.	1881	0.00	•	٠	0/2/0
114	738	Baldwin	5625	5-1881	2-8-0W	20x24" 5	501/2"	114000
115	MH #18	P & R*	_	1868	0-8-0	7	3	65250
115	770	D 11.	Sc.	1881				
115	/39 MU #10	Baldwin D & D*	5628	5-1881	2-8-0W	20x24" 5	01/2"	114000
116	MH #19	P & K+	Sc	1807	0-8-0		ľ	20250
116	1280	P & R	St.	8-1882	0.6.0W	16x18"	43"	61600
117	MH #20	P & R*		1868	0-8-0	7	2	65250
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sc.	1882				
117	1279	P & R		7-1882	0-6-0W	16x18"	43"	61600
118	MH #21	P & R*		1867	0-8-0	?	?	56250
110	146	D & D	Sc.	11 1970	4 4 0337	101/-224	(11/	0.0000
118	M LI #22	D & D*		11-10/9	4-4-UW	18½XZZ"	01/2	80000
119	1111 #22	I a K	Sc	1870	0-0-0	1	r	70270
119		P & R	Ju.	12-1879	4-6-0W	18x24"	54"	98300
	512	P & R*			4-6-0	18x24"	54"	95000
120	MH #23	P & R*		1868	0-8-0	?	?	56250
	1.000.0	D 0 D	Sc.	1880				
120	1272	P&R		6-1880	0-6-0W	16x18"	43"	61600
121	MH #24	P & R*	6.	1808	0-8-0		1	65250
121	1285	P & R	Sc.	5-1885	0.6.01	16v19#	43"	65700
122	MH #25	MHRR*		1864	0-0-0 W	POLICE	4)	67500
	дел		Sc.	1878	300		- 1	0,700
122		P & R		12-1878	4-4-0W	17x22"	61"	?
	Sold-Pa. Nut &	Bolt Co.		6-1899				
122	996	Baldwin	17101	10-1899	2-8-0	22x28"	56"	165000
123	738 MH #18 739 MH #19 1280 MH #20 1279 MH #21 146 MH #22 512 MH #23 1272 MH #23 1272 MH #24 1285 MH #25 Sold—Pa. Nut & 996 MH #26 499	P & R*	6-	1866	0-8-0	ľ	1	67500
123	400	P & R	30.	0-1875	4.60	18x24"	54"	80000
163	199	1 00 10		2-10/7	1-0-0	10124	74	09000

No.	Name & 1900 #	Ruilder		Date	е Туре	Cyl.	D*	Wt.
124		P & R*		1969	0-8-0			67500
127	IVIII #w/	1 00 10	Sc.	1874	0-0-0			07700
124		P&R		11-18/4	4-6-0	18x24"	54"	89000
			Sc.	2-1898				
124	964 MH #28	Baldwin	16417	12-1898	2-8-0 0-8-0	22x28"	56"	163000
125	MH #28	P&R*	Sc.	1867 1881	0-8-0	3	?	67500
125	740	Baldwin P & R*	5632	5-1881	2-8-0W	20x24"	501/3"	114000
126	MH #29	P & R*	7072	1868		2	3	67500
			6-	1001				
126	741 MH #30	Baldwin	5639	5-1881	2-8-0W	20x24"	501/2"	114000
127	MH #30	P&R*	80	1868	0-8-0	2	r.	67500
127	743 MH #31	Raldwin	5647	5-1881	2-8-0W	20x24"	501/4"	114000
128	MH #31	Baldwin	1176	10-1863	0-8-0	20x22	43"	67950
	Sold—Huntingdon	& Broad lop	Mt. R.	R3-18	5/2			01270
128	Sold—Pa. Nut & 997 MH #32	P&R		10-1872	0-8-0	18x22"	43"	79800
	Sold—Pa. Nut &	Bolt Co.		6-1899				
128	997	Baldwin	17144	10-1899	2-8-0	22x28"	56"	165000
129	MH #32 Sold—Huntingdon	Baldwin Ton	11/8 M4 B	10-1863 D 4.19	0-8-0	20x22"	43"	67950
129		P & R	Mt. R.	11-1872	0.8.0	18x22"	43"	79800
149	1436	P & R*		11-10/2	0-8-0W	18x22"		94000
130	1436 Elk	Baldwin	1174	11-1872	0-8-0	20x22"		78750
-	Formerly Catawis 1426	sa R. R. #10	— Sc.	1875				
130	1426	P & R		8-1875	0-8-0	18x22"		79800
131	Pittsburg	P&R		8-1864	4-6-0	18x22"		68600
132	Cincinnati	P & K*		0.1864	4-0-0	18x22" 18x22"		91500 84000
134	Renumbered 402 4	-1900		9-1004	4-0-0	10122	40	04000
133	Formerly Catawis 1426 Pittsburg 446 Cincinnati Renumbered 402 4 Hagerstown 965 Wasp 201 Cleveland 448 Detroit Sold—Pa. Nut & 966 Milwaukee	P & R*		5-1871	0-8-0	18x22"	43"	79800
			Sc.	9-1898				
133	965	Baldwin	16418	12-1898	2-8-0	22x28"	56"	163000
134	Wasp	E. S. Norris		1864	?	9	2	52425
134	201	P&R*		9-18/2	4-4-0W1	V & D R		
135	Cleveland	P&R		11-1864	4-6-0			68600
100	448	P & R*		11-1001	4-6-0	10224		91300
136	Detroit	P&R		11-1864	4-6-0	18x22"		68600
	Sold-Pa. Nut &	Bolt Co.		11-1898				
136	966	Baldwin	16419	12-1898	2-8-0	22x28"	56"	163000
137	Milwaukee	P & R	C -	11-1864	2-8-0 4-6-0	18x22"	46"	68600
137								165000
138	998 Springfield	P & P	17147	11-1864	2-8-0 4-6-0	18x22"		84000
100	Renumbered 403	4-1900		11-1004	1-0-0	10122	70	04000
139	Springfield Renumbered 403 Toledo Renumbered 0139 159 Ant Ex B & S. S. R. R	P&R		11-1864	4-6-0	18x22"	46"	68600
	Renumbered 0139		Sc.	5-1886				
139	159	P & R	1000	6-1884	4-4-0W1	8½x22"	611/2"	97800
140	Ant	Baldwin	1282	9-1804	0-4-0	11x16"	30"	39600
140	EX B & S. S. R. R	D & D	Ce 0140	-1004, Sc. 3_1884	4-4-0W1	81/v22"	611/11	07800
140	180	P & R*		5-1800	4-4-0W1			
141	Louisville	P&R		1-1865	4-6-0	18x22"	48"	84000
	Renumbered 404.	4-1900						
142	Lafayette	P&R	-	1-1865	4-4-0	?	?	56690
1.40	Renumbered 0142-	1883	Sc.	6-1886	4 4 03275	0./ 20	612/4	00500
142	Vaccinales	Baldwin D & D	6/86	6-1883	4-4-0W1 4-4-0	81/2XZZ"	611/2"	56600
143	189 Louisville Renumbered 404, Lafayette Renumbered 0142- 153 Kosciusko Renumbered 0143-	1883	Sc	2-1865 10-1886	4-4-0	.1	2	56690
	Kenumbered 0145	1003	Ju.	10-1000				

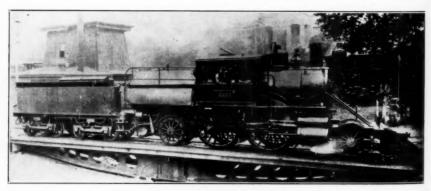
	N C. 1000 #	D '7.7		D .	er .	C 1	В	****
No.	Name & 1900 #		4014	Date		Cyl.	Dr	
143	185	Baldwin	6814	6-1883		8½x22"		
144	185 New Orleans	P&R*		9-1898		8½x22"		
144	New Orleans	Pak	S.	2-1865 2-1884	4-6-0	18x22"	46"	68600
144	160	P & R P & R Norris-Phila	St.	6-1884	4-4-0W1	81/2 x22"	611/4	07800
145	DuPont	Norris-Phila		1865	4-6-0	17x22"	55"	65475
1.12	Renumbered 484,	4-1900		1002	4-0-0	11 122	,,	0/1//
146	Farragut	Norris-Phila		1865	4-6-0	17x22"	55"	65475
			Sc.	0 1006				
146	999	Baldwin Norris-Phila Norris-Lanc. Norris-Phila P & R	17146	10-1899	2-8-0	22x28"		165000
147	Foote (Re. 485)	Norris-Phila		1865	4-6-0	17x22"	55"	65475
148	Grant (Re 486)	Norris-Lanc.		1865	4-6-0	17x22"	55"	67275
149	Porter (Re 487)	Norris-Phila		1865	4-6-0	17x22"	55"	65475
150	Beaver	Pak		4-1805	7	P	?	45450
150	Renumbered 1055 1212	D & D		0.1994	0.4.0	14x22"	44"	58000
151	Ferret	P & R P & R		4-1865	0-4-0	?	5	45450
1/1	Danumbarad 0151	-1884 Sold P	hila & E	Reading C	oal & Ir	on Co (		47470
151	1213	P & R	illa & I	9-1884	0-4-0	14x22"	44"	58000
152	1213 Sheridan	-1884—Sold Pl P & R Norris-Lanc. 4-1900.		1865	4-6-0	17x22"	55"	67275
		4-1900.		5-1865 5-1865 7-1894 10-1899				
153	Dubuque	P&R		5-1865	4-6-0	18x22"	46"	68600
	471	P & R*			4-6-0W	18x22"	48"	98000
154	Galena	P & R		5-1865	4-6-0	18x22"	46"	68600
154	1000	D-17-1-	Sc.	7-1891	200	2220#	260	165000
154 155	Caire	Baldwin	1/14/	6 1965	2-8-0	22x28"		165000
122	452	P & R		0-1007	4-6-0 4-6-0	18x22" 18x22"	46" 48"	68600 91300
156	Kanocha	Nourie Lana		1965	4-6-0	18x22"	46"	68600
170	472	D & D*		1800	4-6-0W	18x22"	48"	98000
157	Lancaster	P & R		8-1864	4-6-0	18x22"	46"	84000
***	,1000 Cairo 453 Kenosha 472 Lancaster Renumbered 405, LaCrosse	4-1900.		0 1001	1-0-0	10/122	10	01000
158				1865	4-6-0	18x22"	46"	84000
	Renumbered 406,	4-1900.						
159	Montana	P&R		7-1865	4-6-0	18x22"	46"	68600
100	463	P & R*		1005	4-6-0	18x22"	46"	91300
160	Keokuk	Norris-Lanc.		1865	4-6-0	18x22"	46"	68600
161	404 Momphie	Par		2-1890	4-6-0 4-6-0	18x22" 18x22"	48" 48"	91300 84000
101	Montana 463 Keokuk 464 Memphis Renumbered 407,	Norris-Lanc.		1007	4-0-0	10X22"	40"	04000
162	Muscatine	Norris-Lanc		1865	4-6-0	18x22"	46"	68600
	461	P & R*			4-6-0	18x22"	48"	91300
163	Nashville	Norris-Lanc.		1865	4-6-0	18x22"	46"	68600
	460	P & R*			4-6-0	18x22"	48"	92100
164	Osage (Re 408)	P&R		8-1865	4-6-0	18x22"	48"	84000
165	Racine (Re 409)	P&R		8-1865	4-6-0	18x22"	48"	84000
166	St. Louis	P&R		8-1865	4-6-0	18x22"	46"	68600
167	480	P&R*		8-1892	4-6-0W	18x22"		103000
167	Ponumbored 410	Norris-Lanc.		1802	4-6-0	18x22"	48"	84000
168	Natchez	Morris Lane		1965	4-6-0	18x22"	46"	68600
100	470	P & R*	197	6.8	4-6-0W	18x22"	48"	98000
169	Augusta	P&R	107	10-1865	4-6-0	18x22"	46"	68600
	456	P & R*			4-6-0	18x22"	48"	91300
170	Iroquois	P&R		10-1865	4-6-0	18x22"	48"	84000
	Renumbered 411,	4-1900.						
171	Kearsarge	P & R		10-1865	4-6-0	18x22"	48"	84000
172	Memphis Renumbered 407, Muscatine 461 Nashville 460 Osage (Re 408) Racine (Re 409) St. Louis 480 Atlanta Renumbered 410. Natchez 470 Augusta 456 Iroquois Renumbered 411, Kearsarge Renumbered 412, Lincoln	4-1900.		11 1065	440	3	2	E6600
172	Lincoln	Pak	Se	11-1865	4-4-0	?	?	56690
			JC.	1001				

No.	Name & 1900 #	Builder		Dat	е Туре	Cyl.	Dr	. Wt.
172	1277	P&R		11-1881			43"	
173	Name & 1900 # 1277 Mobile	Norris-Lanc	Sc.	1865 5-1898	4-6-0	18x22"	46"	68600
173	067	Raldwin	16420	12-1898	2-8-0	22x28"	560	163000
174	967 Portland 447 Jackson Renumbered 0175	D & D	10420	11 1965	4-6-0	18x22"		68600
174	447	P & R		5-1899				
175	lackson	P & K		1 1966		18x22"		91500
1/2	Dackson Dared 0176	1993	0.	1-1866 9-1888	4-4-0	3	?	56690
175	154	Polylaria	6704	9-1000 F 1000	4 4 03371	01/22#	617/1	, ,
176	Norfalls	Dardwin Namia Lana	0/04	5-1883				
1/0	Norfolk 473 Girard	Norris-Lanc		1900		18x22"		68600
177	4/3 C:1	P & R		3 1000		18x22"		98000
177	Girard 1446	1 W K		3-1800	0-10-0	20x26"	43"	88700
170	Renumbered 1448			1000	1.00	10 224	40.0	0.4000
178	Milton	Norris-Lanc.		1800	4-6-0	18x22"	48"	84000
170	Renumbered 413,	4-1900.		4 1000				2
179	Marion	P & R*		4-1866	4-4-0	3	7	56250
170	Ex L. S. R. R.	D C D	Sc.	1877	440	17 000	co	EF 100
179	0	P&R		7-1877	4-4-0	17x22"	68"	75400
170	Sold Atlantic City	y R. R.	171.40	2-1889				
179	1001	Baldwin	17148	10-1899	2-8-0	22x28"		165000
180	Galveston	E. S. Norris		1866	4-6-0	18x22"	48"	84000
101	Milton Renumbered 413, Marion Ex L. S. R. R. 6 Sold Atlantic Cit; 1001 Galveston Renumbered 414, Newbern Renumbered 415.	4-1900.		.0			40	0.000
181	Newbern	E. S. Norris		1866	4-6-0	18x22"	48"	84000
100		4-1900						
182	Pensacola	E. S. Norris	Sc.		4-6-0	18x22"	46"	68600
100	1000	D 11 1	Sc.	8-1894				
182	1002 Preston	Baldwin	17149		2-8-0	22x28"		165000
183	Preston	P & R			0 - 10 - 0	20x26"	43"	88700
103			Sc.	6-1886	0.10.0***			
183	960 Brooklyn Renumbered 416.	P&R		10-1886	0-10-0W	20x26"	423/4"	107000
103	0.00	D 11 1	Sc.	1892				
183	960	Baldwin	12725	6-1892	2-8-0W14			
184	Brooklyn	Norris-Lanc.		1866	4-6-0	18x22"	48"	84000
	Renumbered 416, Concord 483 Peoria Sold—Atlantic Ci 1003 Wharf Rat	4-1900.						
185	Concord	Norris-Lanc.		1866	4-6-0	18x22"	46"	68600
100	483	P&R*		12-1892	4-6-0W	18x22"	48"	103000
186	Peoria	Norris-Lanc.		1866	4-6-0	18x22"	48"	84000
100	Sold—Atlantic Ci	ty R. R.	18170	3-1889	Re 1023			
186	1003	Baldwin	17150	10-1899	2-8-0	22x28"		165000
187	Whart Kat	P&R		7-1866	0-4-0	9x16"	34"	25500
107	F.CO.	D 11 1	Sc.	4-1897				
187	200	Baldwin	15904	5-1898	4-6-0 14			152000
188	560 Mink Sold—Poulterer	P&R		8-1866	0-4-0	9x16"	34"	25500
100	Sold—Poulterer & 968 Minnesota	k Co.		11-1020				
188	968	Baldwin	16421	12-1898	2-8-0	22x28"		163000
189	Minnesota	P & R*	-	10-1866	0-8-0	?	?	67500
	1004 Winona		Sc.	11-1886			-	
189	1004	Baldwin	17151	10-1899		22x28"		165000
190	Winona	P & R	-	11-1866	4-4-0	?	?	56690
	Renumbered O190	-1883	Sc.	-				
190		Baldwin	6822		4-4-0W18			
	18ó Illinois	Baldwin P & R -1883 Baldwin P & R* P & R 4-1900. P & R			4-4-0W18	3½x22"	611/2"	97000
191	Illinois	P & R		5-1867	4-4-0	17x22"	611/2"	73300
	Renumbered 121,	4-1900.						
192	Michigan	P&R		8-1867	4-4-0	17x22"	611/2"	73300
			Sc.	5-1898				
192	969 Otter	Baldwin	16422	12-1898		22x28"		
193	Otter	P&R		9-1867	0-4-0	9x16"	34"	25500
	Sold—I. McHose	& Son, Norris	stown,	12-1891				



-Courtesy of W. A. Lucas.

P. & R. #555-Baldwin, 1890.



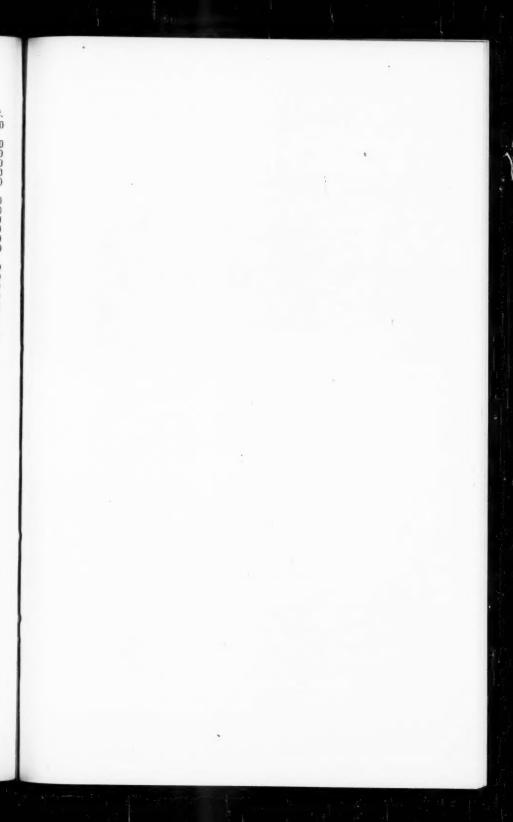
P. & R. #680-Baldwin, 1893.

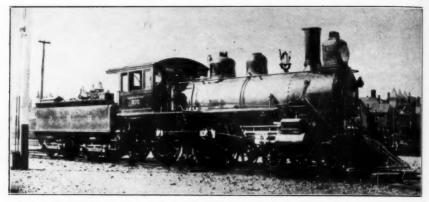
No.	Name & 1900 #	Builder		Date	Typ	e Cyl.	$D_1$	. Wt.
193	1005	Baldwin P & R	17152	10-1899	2-8-0		56"	165000
194	Omaha	P&R		10-1867	4-4-0		5	56690
	Renumbered 0194	-1883	Sc.	3-1886				
194	155	-1883 Baldwin P & R	6843	7-1883	4-4-0W	/18½x22"	611/2	" 97800
195	Soal	P&R	00.5	10-1867	0 4 0		34"	
	Sold-E. Consho	hocken Stone	Quarry (	Co. 11-189	7	2110		27700
195	Re from 1 12-189	7 P & R	2001.7	3-1879	0-4-0W	13x16"	35"	31200
	Renumbered 1201	. 4-1900				.,		,,,,,,
196	Alaska	P&R		4-1868	4-4-0	?	?	56690
			Sc.				•	70070
196		Baldwin	6781		4-4-0W	/18½x22"	611/3	" 99500
	184	P & R*	0.01	7-1899		/18½x22"		
197	Saxon	P&R		5-1868	0-10-0			" 88700
			Sc.	11-1890	0 10 0	201120	/4	00100
197	1006	Baldwin	17153	10-1899	2-8-0	22x28"	56"	165000
198	Norman	P&R		7-1868	0-10-0			
			Sc.	12-1889	0 10 0	201120	-/4	0,000
198	1007	Baldwin	17154	10-1899	2-8-0	22x28"	56"	165000
199	Black Diamond	P&R		9-1868	0-6-0		2	67500
***			Sc.		0-0-0	•		07700
199	1293 Meade	P&R	oe.	10-1886	0-6-0	16x22"	44"	74300
200	Meade	P & R*		9-1868	4-6-0	17x22"	55"	72450
	Sold—Pa. Nut &	Bolt Co		11-1898	1-0-0	11111	"	12170
200	1008	Baldwin	17155		2-8-0	22x28"	56"	165000
201	Potomac	P&R	*****	11-1868	0-8-0	18x22"	43"	79800
	Renumbered 1403			11 1000	0-0-0	IOALL	77	12000
202	Princeton	P & R*		11-1868	0-8-0	16x22"	43"	63000
	Sold-Pa. Nut &	Bolt Co		6-1899	0-0-0	10,222	73	02000
202	1000	Raldwin	17156	10-1899	2-8-0	22x28"	66"	165000
203	Perkiomen	P&R	*****	11-1868	4-4-0	17x22"		
	Renumbered 122,	4-1900		11 1000	1-1-0	11720	01/2	12200
204	Yellow Spring	1-1700.		11-1868	0.8.0	18x22"	43"	79800
201	Renumbered 1402	4-1900.		11-1000	0-0-0	10144	7)	79090
205	Panama	P & R*		1-1869	0-8-0	18x22"	43"	79800
-0.	Sold-Pa. Nut &			6-1899	0-0-0	10122	10	12000
205	1010	Baldwin	17334	1-1900	2-8-0	22x28"	56"	165000
206	Georgia	P & R	.,,,,	2-1869	200	Sc. 12-188		102000
206	1010 Georgia 202	P&R		7-1886		18½x22"		104500
207	Spartan	P&R		2-1869	4-6-0	18x22"	48"	85000
20,	Renumbered 417,				1-0-0	IONES	10	02000
208	Blandon	Baldwin	Sc.	a5-1869	460	171/2×22"	50"	68625
200	From East Penna		Sc	1880	1-0-0	11/2/100	70	00027
208	Trom East Tenna	P&R	De.	11-1880	0-4-0W	13x16"	35"	31200
200		1 44 14	Sc.	7-1893	0-1-0 11	12410	"	71200
208	1011	Baldwin	17335	1-1900	2-8-0	22x28"	56"	165000
209	Cricket	P & R*	11777	3-1869	4-4-0	15x22"	56"	54900
207	Renumbered 110,			5-1007	1-1-0	17000	70	74900
210	Nebraska	P & R*		3-1869	0-8-0	18x22"	43"	79800
210	1443	P & R*		J-1007	0-8-0W		43"	94000
211		P&R		3-1869	4-6-0	18x22"	48"	85000
411	Renumbered 418,			3-1009	1-0-0	IOAGE	40	07000
212	Canadian	P & R		4-1869	4-6-0	18x22"	48"	84000
212	Camadian	1 00 10	Sc.	11-1898	1-0-0	10122	40	01000
212	970	Baldwin	16423	12-1898	2-8-0	22x28"	56"	163000
213		P & R*	1072)		0-8-0	18x22"	43"	79800
217	Renumbered 1401			4-1009	0-0-0	10122	45	79000
214	Arabian	P & R		5-1869	4-6-0	18x22"	48"	84000
217	and and and	I d It	Sc.	8-1397	1-0-0	10122	40	04000
214	561	Baldwin			460	14-24x26"	61"	152000
	T*	E- 44144 TT 111	17707	1000	1-0-0	2 1/20	O1	. /2000

No.	Name & 1900 #	Builder		Date	Type	Cyl.	Dr.	Wt.	
215	Chippewa	P & R*		5-1869	0-8-0	18x22"	43"	79800	
216	1447	P & R*		-E 1940	0-8-0W		43"	94000	
216	Decatur #2 Renumbered 0216	Rogers	Sc.	a5-1869 4-1886	4-4-0	?	?	58250	
217	Dauphin ?	P & R	Sc.	a5-1869	4-6-0	18x22"	48"	84000	
	Sold—Pa. Nut &	Bolt Co.		11-1898				- 1000	
218	Easton #3	Rogers		a5-1869	4-4-0	Sc. 188	33 ?	54000	
219	Essex #4 Renumbered 0219	Rogers	Sc.	a5-1869 4-1886	4-4-0	r		58250	
220	Franklin #5	Rogers	Ju.	a5-1869	4-4-0	Sc. 188	32	58250	
221	Fleetwood ?	Baldwin		a5-1869	4-6-0	171/2x22"	50"	68625	
222	** "	D	Sc.	1883	4.40	C 100	20	F 4000	
222 223	Hanover #6 Jefferson ?	Rogers P & R		a5-1869 a5-1869	4-4-0 4-6-0	Sc. 188	48"	54000 84000	
443	475	P & R*		9-1891	4-6-0W		48"	98000	
224	Lehigh #14	Baldwin	1124	4-1863	0-6-0	15x18"	44"	60750	
			Sc.	1881					
226	Madison #1	Norris	948	1859	4-4-0	Sc. 18		57375	
227	Shamrock ?	Baldwin	Sc.	a5-1869 8-1897	4-6-0	17½x22"	50"	78000	
228	Trenton #10	Norris-Lanc.		a5-1869	4-6-0	18x22"	48"	84000	
	, , , , , , , , , , , , , , , , , , , ,		Sc.	7-1894					
229	Tacony #13	P&R	102	1867	4-4-0	?	3	56690	
	Renumbered 0229 P & R Nos. 208,		Sc.	9-1888	from th	- East B	onner	lvania	
	R R May 1869	and the num	bers carr	ied on the	hat road	i immedi:	ately	follow	
	R. R. May, 1869 the name. They	were replaced	by the	following	:		,	.011011	
216	147	P&R		1-1882	4-4-0W	181/2×22"	611/2"	93600	
217	971	Baldwin	16500	2-1899	2-8-0	22x28"		163000	
218	180	Baldwin P & R*	6745	5-1883 3-1899		18½x22" 18½x22"			
219	165	P & R		10-1881	4-4-0W	18½x22"	681/2"	95000	
220	-00	P & R		2-1882	4-4-0W	18½x22"	611/2"	93600	
	178	P & R*		11-1898		181/2×22"	611/2"		
221	1283	P&R P&R		9-1883 4-1882		16x18"	43"	61600	
224	167	P&R		2-1881		18½x22" 18½x22"		95000	
221	176	P & R*		3-1899	4-4-0W	18½x22"	611/2"		
225	Mississippi	P & R*		5-1869	0-8-0	18x22"	43"	79800	
226	Renumbered 1404			11 1001	4 4 0111	100/ 000	co- / m	05000	
226 227	166 562	P & R Baldwin	15906	11-1881 5-1898	4-4-0W 4-6-0	18½x22" 14-24x26"			
228	1012	Baldwin	17336	1-1900	2-8-0	22x28"	56"	165000	
228 229	148	Baldwin	6752	5-1883		181/2×22"			
230	Australia	Baldwin	1881	5-1869	4-6-0	18x22"	48"	84000	
231	449 Palaina (410)	P & R*		6 1060	4-6-0	18x22"	48"	92100	
232	Belgian (419) Bolivia (29)	P & R Baldwin	1885	6-1869 5-1869	4-6-0 4-6-0	18x22" 18x22"	48"	85000 84000	
232	Sold—Atlantic Cit		1007	2-1889		bered 10		04000	
233	Caledonia (420)	Baldwin	1882	5-1869	4-6-0	18x22"	48"	85000	
234	Persian	P & R		6-1869	4-6-0	18x22"	48"	84000	
225	468	P & R*		2-1894	4-6-0W			103000 79800	
235	San Francisco 1442	P & R* P & R*		6-1869	0-8-0 0-8-0W	18x22" 18x22"	43" 43"	94000	
236	America (421)	Baldwin	1893	5-1869	4-6-0	18x22"	48"	85000	
237	Bavaria (422)	Baldwin	1891	5-1869	4-6-0	18x22"	48"	85000	
238	Connecticut	P & R*		7-1869	0-8-0	18x22"	43"	79800	
238	168	D & D	Sc.	1882 6-1882	4.4.0337	18½x22"	691/11	05000	
239	Cambria	P & R Baldwin	1900	6-1869	4-4-0W 4-6-0	18x22"	48"	84000	
417	454	P & R*	1700	3-1007	4-6-0	18x22"	48"	92100	

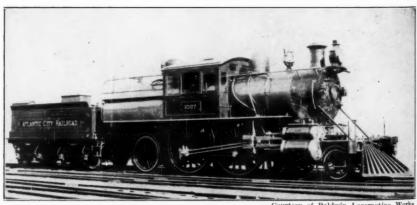
No.	Name & 1900 #	Builder		Date	e Type	Cyl.	Dr	. Wt.
240	Geneva	Baldwin	1914	6-1869		18x22"	48"	84000
	469	P & R*		-	4-6-0W	18x22"	48"	103000
241	Hungarian	P&R		7-1869	4-6-0	18x22"	48"	84000
	458	P & R*		-	4-6-0	18x22"	48"	92100
242	Havana (423)	Baldwin	1910	6-1869	4-6-0	18x22"	48"	85000
243	Utah (1405)	P & R*		7-1869	0-8-0	18x22"	43"	79800
244	Vienna	Baldwin	1907	6-1869	4-6-0	18x22"	48"	84000
	478	P & R*			4-6-0W	18x22"	48"	103000
245	Bee	P & R*		8-1869	4-4-0	15x22"	56"	54900
015	Sold—Pa. Nut &			6-1899				1 (5000
	1013	Baldwin	17337	1-1900	2-8-0	22x28"	56"	165000
246	Brazilian (424)	P&R		8-1869	4-6-0	18x22"	48"	85000
247	Cumberland	P & R*		8-1869	0-8-0	18x22"	43"	79800
240	Renumbered 1406			0.10/0	4.60	10 220	40#	0.1000
248	Caspian 474	P&R		8-1869	4-6-0	18x22"	48"	84000
249	Valentia	P & R*	1915	6-1869	4-6-0W 4-6-0	18x22"	48"	103000 84000
249	Sold—Pa. Nut &	Baldwin	1915	11-1898	4-0-0	18x22"	40	04000
249	972	Baldwin	16501	2-1899	2-8-0	22x28"	56"	163000
250	Corsican	P & R	10501	9-1869	4-6-0	18x22"	48"	84000
270	455	P & R*		7-1888	4-6-0	18x22"	48"	92100
251	Louisiana	P & R*		9-1869	0-8-0	18x22"	43"	68235
271	Louisialia	L & W.	Sc.	8-1891	0-0-0	10122	4)	002))
252	Susquehanna	P & R*	JC.	9-1869	0-8-0	18x22"	43"	79800
2/2	Dusquenanna	1 an	Sc.	3-1900	0-0-0	10122	42	77010
253	Charleston	P & R*	50.	10-1869	0-8-0	18x22"	43"	79800
	1428	P & R*		10-1002	0-8-0	18x22"	43"	83200
254	Hornet	P & R*		10-1869	4-4-0	15x22"	56"	54900
			Sc.	10-1898				, ,, ,,
254	973	Baldwin	16502	2-1899	2-8-0	22x28"	56"	163000
255	Mount Vernon	P & R*		10-1869	0-8-0	18x22"	43"	79800
			Sc.	7-1894				
256	Pottsville	P & R*		10-1869	0-8-0	18x22"	43"	79800
	Renumbered 1407							
257	Monongahela	P & R*		11-1869	0-8-0	18x22"	43"	79800
	Renumbered 1408							
258	Minerva	P&R		11-1869	0-6-0	16x18"	43"	64000
***	Renumbered 1252	, 4-1900.						
259	Shenandoah	P & R*		11-1869	0-8-0	18x22"	43"	79800
0.00	1429	P & R*			0-8-0	18x22"	43"	83200
260	Buffalo	P & R*		1-1870	0-8-0	18x22"	43"	79800
261	1444	P & R*		9-1892	0-8-0W	18x22"	43"	94000
261	Norwegian	P & R		1-1870	4-6-0	18x22"	43"	85000
262	Renumbered 425,			1 1076	000	1022#	420	70000
262	Savannah	P & R*		1-1870	0-8-0	18x22"	43"	79800
262	Renumbered 1409			3-1870	460	1022#	4311	05000
263	Austrian Renumbered 426,	P & R		2-10/0	4-6-0	18x22"	43"	85000
264	Badger 420,	P & R		3-1870	0-4-0	9x16"	34"	25500
204	Sold Poulterer &			5-1894	0-1-0	9X10	24	277(4)
265	Castilian	P&R		3-1870	4-6-0	18x22"	'43"	84000
20)	466	P & R*		J=1070	4-6-0	18x22"	43"	92100
266	Lexington	P & R*		3-1870	0-8-0	18x22"	43"	79800
200	Renumbered 1410			3-1010	0-0-0	IOAGG	4)	77000
267	Pine Grove	P & R*		3-1870	7	Sc. 1883		60750
267	1204	P&R		3-1883	0-4-0	14x22"	44"	58000
268	Weasel	P&R		3-1870	0-4-0	9x16"	34"	25500
	Sold—Poulterer &			2010		2		
269	Russian (427)	P&R		4-1870	4-6-0	18x22"	48"	85000

No.	Name & 1900 #	Builder		Date	Туре	Cyl.	$D_1$	. Wt.
270	Sable	P&R		4-1870	0-4-0	9x16"	34"	25500
			Sc.	4-1897				
270	563	Baldwin	15907	5-1898	4-6-0	14-24x26"	61"	
271	Albany (1412)	P & R*		5-1870	0-8-0	18x22"	43"	
272	Arkansas (1413)	P & R*		5-1870	0-8-0	18x22"	43"	
273	Ashland (1411)	P & R*		5-1870	0-8-0	18x22"	43"	
274	Colorado	P & R*		5-1870	0-8-0	18x22"	43"	79800
	Sold—Poulterer &			11-1898				
274	974	Baldwin	16503	2-1899	2-8-0	22x28"		163000
275	Cuban (428)	P & R		5-1870	4-6-0	18x22"	43"	
276	Diana (1253)	P&R		5-1870	0-6-0	16x18"	43"	
277	New Hampshire			5-1870	0-8-0	18x22"	43"	
-	1445	P & R*			0-8-0W		43"	
278	Siberian	P&R		5-1870	4-6-0	18x22"	48"	84000
000	Sold—Pa. Nut &			11-1898		** ***		1.00000
278	975	Baldwin	16504	2-1899	2-8-0	22x28"	56"	
279	Penobscot	P & R*		6-1870	0-8-0	18x22"	43"	
200	1437	P & R*		< 1070	0-8-0W		43"	
280	Saranac	P & R*		6-1870	0-8-0	18x22"	43"	
201	1441	P & R*		( 1000	0-8-0W		43"	
281	Vesta (1254)	P&R		6-1870	0-6-0	16x18"	43"	
282	Athenian	P & R		7-1870	4-6-0	18x22"	48"	
202	476	P & R*	F00	5-1891	4-6-0W		48"	
283	Lippincott	Baldwin	589	5-1854	0-6-0	13½x18"	42"	41890
204	N11	D 11-1	Sc.	1883	0.00	131/-100	420	40000
284	Navigation	Baldwin	544	8-1853	0-6-0	13½x18"	42"	40990
285	J. R. Worrell	Baldwin	Sc. 758 Sc.	5-1857 1881	0-6-0	13½x18"	43"	39200
	Nos. 283-285 were	received from			Navigat	ion Co	and .	entered
	service on the P	& R July 1876	They	Were ren	laced by	the follo	win	ciiteieu
283	1207	P&R	. They	6-1883	0-4-0	14x22"	44"	58000
284	1281	P & R		1882-3	0-6-0W		43"	
285	736	Baldwin	5589	4-1881		20x24" 5		
286	Kennebec	P & R*	7707	8-1870	0-8-0	18x22"	43"	79800
200	Renumbered 1414	4-1900		0 107.	0.0.0	10200	10	1,000
287	Mexican (429)	P & R		8-1876	4-6-0	18x22"	48"	85000
288	Rhode Island	P & R*		8-1870	0-8-0	18x22"	43"	79800
200	1440	P & R*			0-8-0W		43"	94000
289	Bohemian (430)	P&R		9-1870	4-6-0	18x22"	43"	85000
290	Narragansett	P & R*						
	Renumbered 141			9-18/0	0-8-0	18X22"	45"	19800
291		). 4-1900.		9-1870	0-8-0	18x22"	43"	79800
		P & R*						79800
271	Richmond	P & R*		9-1870 9-1870	0-8-0	18x22"	43"	
	Richmond Renumbered 1416	P & R* 5,4-1900		9-1870	0-8-0	18x22"	43"	79800
292	Richmond Renumbered 1416 Roman (30)	P & R* 5,4-1900 P & R		9-1870 9-1870	0-8-0 4-6-0	18x22" 18x22"	43" 48"	
292	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci	P & R* 5,4-1900 P & R ty R. R.		9-1870 9-1870 2-1889	0-8-0 4-6-0 Renum	18x22" 18x22" bered 102	43" 48" 24	79800
	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255)	P & R* 5,4-1900 P & R ty R. R. P & R		9-1870 9-1870 2-1889 9-1870	0-8-0 4-6-0	18x22" 18x22" bered 102 16x18"	43" 48"	79800 84000
292 293	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine	P & R* 5,4-1900 P & R ty R. R. P & R P & R*		9-1870 9-1870 2-1889	0-8-0 4-6-0 Renum 0-6-0	18x22" 18x22" bered 102	43" 48" 24 43"	79800 84000 64000
292 293	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417	P & R* 5,4-1900 P & R ty R. R. P & R P & R* 7, 4-1900.		9-1870 9-1870 2-1889 9-1870 10-1870	0-8-0 4-6-0 Renum 0-6-0	18x22" 18x22" 16x18" 16x18" 18x22"	43" 48" 24 43"	79800 84000 64000
292 293 294	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438	P & R* i,4-1900 P & R ty R. R. P & R P & R* ', 4-1900. P & R*		9-1870 9-1870 2-1889 9-1870	0-8-0 4-6-0 Renum 0-6-0 0-8-0	18x22" 18x22" (bered 102 16x18" 18x22"	43" 48" 24 43" 43"	79800 84000 64000 79800
292 293 294	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438	P & R* 5,4-1900 P & R ty R. R. P & R P & R* 7, 4-1900.		9-1870 9-1870 2-1889 9-1870 10-1870	0-8-0 4-6-0 Renum 0-6-0 0-8-0	18x22" 18x22" (bered 102 16x18" 18x22"	43" 48" 24 43" 43" 43"	79800 84000 64000 79800 79800
292 293 294 295 296	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey	P & R* 54-1900 P & R ty R. R. P & R* P & R* P & R* P & R* P & R* P & R*		9-1870 9-1870 2-1889 9-1870 10-1870 10-1870	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0W	18x22" 18x22" bered 102 16x18" 18x22" 18x22"	43" 48" 24 43" 43" 43" 43"	79800 84000 64000 79800 79800 94000
292 293 294 295 296	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438	P & R* 54-1900 P & R ty R. R. P & R* P & R* P & R* P & R* P & R* P & R*	17338	9-1870 9-1870 2-1889 9-1870 10-1870 10-1870 11-1870	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0W	18x22" 18x22" bered 102 16x18" 18x22" 18x22"	43" 48" 24 43" 43" 43" 43"	79800 84000 64000 79800 79800 94000
292 293 294 295 296 296	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey Sold—Pa. Nut & 1014	P & R* j,4-1900 P & R ty R. R. P & R* P & R* P & R* P & R* P & R* Bolt Co. Baldwin	17338	9-1870 9-1870 2-1889 9-1870 10-1870 10-1870 11-1870 6-1899	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0W 0-8-0	18x22" 18x22" ibered 102 16x18" 18x22" 18x22" 18x22" 18x22"	43" 48" 24 43" 43" 43" 43"	79800 84000 64000 79800 79800 94000 79800
292 293 294 295 296	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey Sold—Pa. Nut & 1014 Rausch Gap	P & R* 5,4-1900 P & R P & R P & R P & R* 5,4-1900. P & R* P & R* Bolt Co. B & R*	17338	9-1870 9-1870 2-1889 9-1870 10-1870 10-1870 	0-8-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0W 0-8-0 2-8-0	18x22" 18x22" ibered 102 16x18" 18x22" 18x22" 18x22" 18x22" 22x28"	43" 48" 24 43" 43" 43" 43" 56"	79800 84000 64000 79800 79800 94000 79800 165000
292 293 294 295 296 296	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey Sold—Pa. Nut & 1014	P & R* 5,4-1900 P & R P & R P & R P & R* 5,4-1900. P & R* P & R* Bolt Co. B & R*	17338 1137	9-1870 9-1870 2-1889 9-1870 10-1870 10-1870 	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0 0-8-0 2-8-0 0-8-0	18x22" 18x22" ibered 102 16x18" 18x22" 18x22" 18x22" 18x22" 22x28"	43" 48" 24 43" 43" 43" 43" 56"	79800 84000 64000 79800 79800 94000 79800 165000
292 293 294 295 296 296 297	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey Sold—Pa. Nut & 1014 Rausch Gap Renumbered 1418	P & R* 5,4-1900 P & R ty R. R. P & R* P & R* P & R* P & R* P & R* Bolt Co. Baldwin P & R* Bolt Co.		9-1870 9-1870 2-1889 9-1870 10-1870 10-1870  11-1870 6-1899 1-1900 11-1870	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0 0-8-0 2-8-0 0-8-0	18x22" 18x22" bered 102 16x18" 18x22" 18x22" 18x22" 18x22" 18x22"	43" 48" 43" 43" 43" 43" 56" 43"	79800 84000 64000 79800 79800 94000 79800 165000 79800 48000
292 293 294 295 296 296 297	Richmond Renumbered 1416 Roman (30) Sold—Atlantic Ci Vulcan (1255) Gold Mine Renumbered 1417 Havre de Grace 1438 New Jersey Sold—Pa. Nut & 1014 Rausch Gap Renumbered 1418 Belmont	P & R* 5,4-1900 P & R ty R. R. P & R* P & R* P & R* P & R* P & R* Bolt Co. Baldwin P & R* Bolt Co.	1137	9-1870 9-1870 2-1889 9-1870 10-1870 10-1870 11-1870 6-1899 1-1960 11-1870 5-1863	0-8-0 4-6-0 Renum 0-6-0 0-8-0 0-8-0 0-8-0 0-8-0 2-8-0 0-8-0	18x22" 18x22" bered 102 16x18" 18x22" 18x22" 18x22" 18x22" 18x22"	43" 48" 24 43" 43" 43" 43" 56" 43"	79800 84000 64000 79800 79800 94000 79800 165000 79800





P. & R. #970-Baldwin, 1888. Used on "Market Express"-Phila, to Reading. David Lowe, Engineer.



-Courtesy of Baldwin Locomotive Works.

A. C. R. R. #1027-Baldwin, 1896.

No.	Name & 1900 #	Builder		Date	Type	Cyl.	Dr.	Wt.
300	Chestnut Hill	Baldwin	2011 Sc.	11-1869 1881	4-4-0	13x24"	463/4"	46125
301	Conshohocken	Baldwin	744 Sc.	2-1857 1881	4-4-0	13½x24"	54"	42700
302	Carlisle Sold—Harrisburg	Baldwin & Potomac	1211	2-1864 4-1880	4-4-0	13½x24"	60"	45000
303	E. C. Dale	Baldwin	1592 Sold	3-1867 1883	0-6-0	15x18"	44"	52000
304	Downingtown	Baldwin	530 Sc.	5-1853 1876	0-6-0	12½x18"	42"	41800
305	Mount Airy	Baldwin	1991 Sc.	10-1869 1883	0-6-0	15x18"	42"	47250
306	Manayunk	Baldwin	692 Sc.	4-1856 1881	4-4-0	13½x24"	54"	42700
307	Manatawna Sold-Western R.	Baldwin R. of North	1213	2-1864 9-1872	4-4-0	13½x24"	60"	45000
308	Nicetown	Baldwin	1700 Sold	2-1868 1881	4-4-0	13x24"	56"	46125
309	Norristown	Baldwin	593 Sc.	5-1854 1881	0-6-0	14½x18"	42"	41800
310	Oakland	Baldwin	1424 Sold	11-1865 1881	4-4-0	14x24"	54"	53000
311	Plymouth Sold—Pa. Nut &	Baldwin Bolt Co.	2161	6-1870 6-1899	4-6-0	16x24"	54"	55125
312	Quaker City Sold—Riverside In	Baldwin on Wks.	772	7-1857 7-1872	4-4-0	13x24"	60"	43800
313	Rockland	Baldwin	687 Sc.	3-1856 1876	0-6-0	14½x18"	42"	41800
314	Roxborough	Baldwin	843 Sc.	3-1859 1876	4-4-0	13x24"	54"	44800
315	Superior	Baldwin	616 Sc.	9-1854 1876	4-4-0	13½x24"	54"	42700
316	Stanhope	Baldwin	721 Sc.	10-1856 1877	4-4-0	12½x24"	60"	43800
317	Spring Mill	Baldwin	729 Sc.	11-1856 1878	4-4-0	13½x24″	54"	42700
318	Thorndale	Baldwin	1679 Sc.	12-1867 1883	0-6-0	15x18"	44"	52000
319	Tioga Sold—Wicomico &	Baldwin Roanoke R.	714 R.	8-1856 7-1872	4-4-0	12½x24"	60"	43800
320	Wayne	Baldwin	1908 Sc.	6-1869 1881	4-4-0	13x24"	573/4"	. 5
	Nos. 298-320 were town R. R., and en							
298	by the following l				0-4-0W	13x16"		31200
	Sold-Poulterer &			5-1894				31200
299	1286	P&R		6-1883	0-6-0W	16x18"	43"	61600
300	740	Baldwin	5651	5-1881	2-8-0W			14000
201	748	P & R*	5650	1-1898	2-8-0W	20x24" 5		
301 302	744 745	Baldwin	5658	6-1881	2-8-0W		11/2"	14000
303		Baldwin P & R	5669	6-1881 7-1883	2-8-0W 0-6-0W	16x18"	43"	14000 61600
304		P&R			4-4-0	17x22"		75400
305	1288	P&R		8-1883	0-6-0W	16x18"	43"	61600
306	746	Baldwin	5678	6-1881		20x24" 5		
307		P & R	7070	4-1873	4-4-0	17x22"		
308		Baldwin	5680		2-8-0W			
309		P & R	7000	3-1881		18½x22"		
310		Baldwin	5699			20x24" 5		

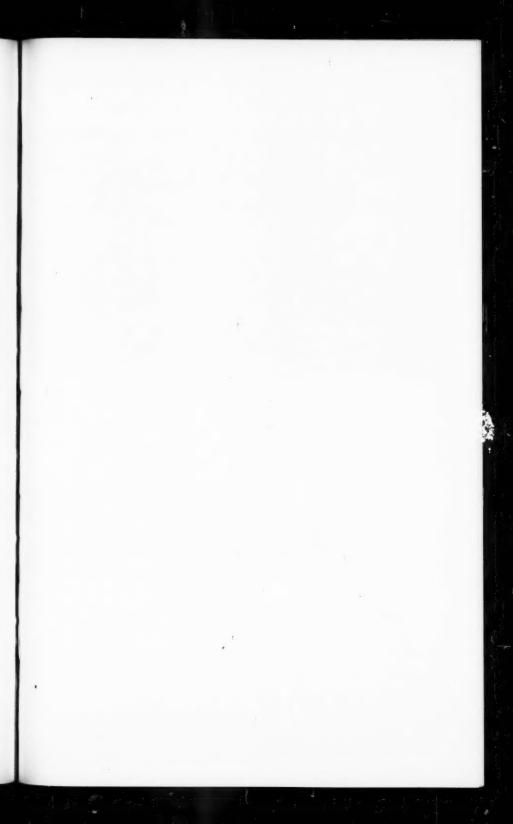
```
No.
         Name & 1900 #
                                Builder
                                                           Date
                                                                    Type
                                                                             Cyl.
                                                                                      Dr.
                                                                                             Wt.
 311
       1015
                                               17348
                                                        1-1900
                                                                 2-8-0
                                                                            22x28"
                                                                                     56" 165000
                             Baldwin
                                                                 4-4-0 17x22" 61½" 73300
4-4-0 17x22" 68½" 75400
Renumbered 1009
 312
       124
                             P&R
                                                        9-1872
 313
                             P&R
                                                        3-1876
       Sold-Atlantic City R.
                                                        2-1889
                                   R.
 314
                             P&R
       132
                                                        5-1876
                                                                          · 17x22" 611/2" 73300
                                                                 4-4-0
 315
                                                                            17x22" 61½"
18x24" 54"
       133
                             P
                                                        5-1876
                               & R
                                                                 4-4-0
                                                                                           73300
 316
       505
                             P&R
                                                                            18x24"
                                                       10-1877
                                                                 4-6-0
                                                                                           89000
 317
       976
                                                        2-1899
                                                                 2-8-0
                                                                            22x28"
                                                                                     56" 163000
                             Baldwin
                                               16505
 318
       1289
                                                        8-1883
                                                                                     43"
                             P & R
                                                                 0-6-0W
                                                                            16x18"
                                                                                           61600
 319
       126
                            P&R
                                                        4-1873
                                                                 4-4-0
                                                                          17x22" 61½" 73300
20x24" 50½" 114000
 320
                            Baldwin
                                                5700
                                                                 2-8-0W
                                                        6-1881
       754
                                                                 2-8-0W
                             P & R*
                                                        5-1899
                                                                           20x24" 51½"
                                                                                          114000
                            P&R
                                                                            18x22"
 321
       Grecian (431)
                                                                                     48"
                                                        3-1871
                                                                 4-6-0
                                                                                           85000
       Italian (432) P & R
Denver (115) P & R
Sold—P & R C & I Co.
 322
                                                                            18x22"
                                                        5-1871
                                                                 4-6-0
                                                                                     48"
                                                                                           85000
 323
                            P&R
                                                                            15x20"
                                                                                     61"
                                                        6-1871
                                                                 4-4-0
                                                                                           68000
                                                        8-1889
                                                                 Returned in 1899
324
      Duluth
                            P&R
                                                                                     61"
                                                        7-1871
                                                                            15x20"
                                                                                           68000
                                                                 4-4-0
                                                 Sc.
                                                        4-1900
 325
       Ionian (433)
                                                        7-1871
                                                                           18x22"
                                                                                     48"
                                                                 4-6-0
                                                                                           85000
                            P & R
 326
      Saturn (1265)
                                                        7-1871
                                                                 0-6-0
                                                                            16x18"
                                                                                     43"
                                                                                           64000
 327
                            P
       Moravian (434)
                               & R
                                                        8-1871
                                                                 4-6-0
                                                                           18x22"
                                                                                     48"
                                                                                           85000
 328
                            P
      Sitka (116)
                               & R
                                                        8-1871
                                                                 4-4-0
                                                                            15x20"
                                                                                     61"
                                                                                           68000
      Corinthian (435)
                                                                            18x22"
                                                                                     48"
329
                            P
                               & R
                                                        8-1871
                                                                                           85000
                                                                 4-6-0
                            P
330
                                                                                     61"
      Oneida (117)
                               & R
                                                        9-1871
                                                                 4-4-0
                                                                            15x20"
                                                                                           68000
331
      Syrian (31)
                            P
                                                       10-1871
                                                                           18x22"
                               & R
                                                                                     48"
                                                                 4-6-0
                                                                                           84000
                                                       2-1889
10-1871
       Sold—Atlantic City
                              R.
                                   R.
                                                                 Renumbered 1021
                            P&R
332
                                                                                     34"
      Ermine
                                                                            9x16"
                                                                                           25500
                                                                 0 - 4 - 0
       Sold-P & R C &
                             I Co.
                                                       8-1889
333
                            P&R
      Mole
                                                       10-1871
                                                                 0 - 4 - 0
                                                                            9x16"
                                                                                     34"
                                                                                           25500
                                                       12-1897
                                                                        14-24x26"
333
                            Baldwin
                                              15908
                                                        5-1898
                                                                 4-6-0
                                                                                     61" 152000
334
      Aurora (1256)
                                                                                     43"
                            P&R
                                                       10-1871
                                                                 0-6-0
                                                                           16x18"
                                                                                           64000
335
      Apollo (1257)
                            P&R
                                                                                     43"
                                                       11-1871
                                                                 0-6-0
                                                                           16x18"
                                                                                           64000
336
                            P&R
                                                                                     48"
      Caucasian (436)
                                                                           18x22"
                                                                                          85000
                                                       11-1871
                                                                 4-6-0
337
      Hibernian (437)
                            P&R
                                                                           18x22"
                                                       11-1871
                                                                 4-6-0
                                                                                           85000
                           P&R
338
                                                                           18x22"
      Mongolian (438)
                                                       11-1871
                                                                4-6-0
                                                                                     48"
                                                                                          85000
      This was the last name applied to a locomotive on this road save for two inspection locomotives. The following month #339 was completed in the Reading Shops but she carried no name. Altho subsequent engines in this
      list will be found with names, they came from roads acquired by the P & R
      and they were retained until such time as they were removed.

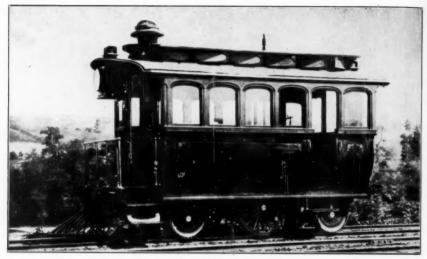
P & R 12-1871 4-6-0 18x22"

457 P & R* 4-6-0 18x22"
339
                                                                           18x22"
                                                                                    48"
                                                                                          92100
340
                                                                           16x18"
                                                                                    43"
                            P&R
                                                       1-1872
                                                                0-6-0
                                                                                          64000
                                                       8-1898
2-1899
340
      977
                            Baldwin
                                              16506
                                                                 2-8-0
                                                                           22x28**
                                                                                    56" 163000
                                                       2-1872
                                                                                    43"
341
      1258
                            P&R
                                                                0-6-0
                                                                           16x18"
                                                                                          64000
                            P&R
                                                                                    43"
342
      1259
                                                       3-1872
                                                                           16x18"
                                                                                          64000
                                                                0-6-0
343
                            P & R
                                                       5-1872
                                                                0 - 10 - 0
                                                                           20x26" 423/4" 88700
      Sold-Poulterer & Co.
                                                      11-1898
343
                            Baldwin
                                              16507
                                                       2-1899
                                                                 2-8-0
                                                                           22x28"
                                                                                    56" 163000
344
                            P&R
                                                       6-1872
                                                                0-10-0
                                                                           Like #343
      Sold-Pa. Nut & Bolt Co.
                                                      11-1898
344
      979
                            Baldwin
                                              16508
                                                       2-1889
                                                                2-8-0
                                                                           22x28"
                                                                                    56" 163000
                                                                           18x22"
      Boston
345
                            P&R
                                                      10-1865
                                                                                    48"
                                                                                          84000
                                                                4-6-0
                            P & R*
                                                                           18x22"
                                                                                    48"
      459
                                                         1889
                                                                4-6-0
                                                                                          91300
                            P & R*
                                                                           18x22"
                                                                                    43"
346
                                                                0-8-0
                                                                                          79800
      Baltimore
      Renumbered 1421.
                             4-1900.
347
                            S & S*
                                                                              ?
                                                                                       ?
                                                                                             7
      Lorberry
                                                Sc.
                                                         1881
348
     Susquehanna
                            P & R*
                                                                4-4-0
                                                                           Sc. 1881
```

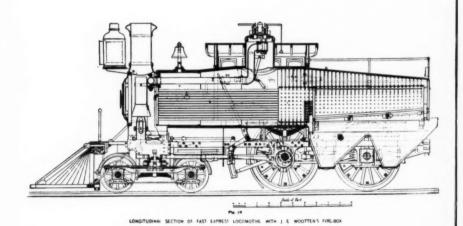
```
No.
         Name & 1900 #
                               Builder
                                                         Date
                                                                 Type
                                                                          Cyl.
                                                                                   Dr.
                                                                                          Wt.
 349
       Schuylkill
                            P&R
                                                                         Sc. 1881
                                                               4-4-0
                            P
 350
       Tremont
                              & R
                                                                         Sc. 1876
                            P&R
 351
       Lark
                                                               4-4-0
                                                                         Sc. 1875
       Nos. 345-351 were received from the Schuylkill & Susquehanna R. R. and en-
       tered service on the P & R in June, 1872.
750 Baldwin 5710
                                                     They were replaced by the following: 7-1881 2-8-0W 20x24" 50½" 114000
 347
      750
                                                              2-8-0W 20x24" 50½" 114000
                                                               4-4-0W18½x22" 68½" 95000
4-4-0W18½x22" 61½" 93000
                                                      4-1881
7-1899
 348
                           P&R
                           P & R*
       177
 340
      164
                           P&R
                                                               4-4-0W18½x22" 68½" 95000
4-4-0 17x22" 61½" 73300
                                                      7-1881
 350
      131
                           P&R
                                                      4-1876
 351
                           P&R
      130
                                                                         17x22"
                                                                                611/2"
                                                      5-1875
                                                               4-4-0
                                                                                        73300
                                                                         18x22"
 352
                           P&R
                                                     10-1872
                                                               4-6-0
                                                                                        84000
      452
                           P & R*
                                                      7-1888
                                                               4-6-0
                                                                         18x22"
                                                                                  48"
                                                                                        92100
                                                                         18x22"
 353
      442
                           P&R
                                                     10-1872
                                                                                  48"
                                                               4-6-0
                                                                                        85000
      CRR
                                                                         16x20"
 354
                           Hinkley
                                               238
                                                      6-1849
                                                                                  54"
                                                               4-4-0
                                                                                        45000
                                                Sc.
                                                        1875
 355
              2
                           Hinkley
                                               241
                                                      6-1849
                                                               4-4-0
                                                                                  54"
                                                                         16x20"
                                                                                        45000
                                               Sc.
                                                        1875
 356
              3
                           Baldwin
                                              1074
                                                      8-1862
                                                               4-6-0
                                                                      171/2x22"
                                                                                  48"
                                                                                        67500
                                               Sc.
                                                       1882
                                              1076
 357
              4
                           Baldwin
                                                      8-1862
                                                               4-6-0
                                                                      17½x22"
                                                                                  48"
                                                                                        67500
                                               Sc.
                                                      4-1884
              5
 358
                                              1078
                                                     9-1862
                           Baldwin
                                                               4-6-0
                                                                      17½x22"
                                                                                  48"
                                                                                        67500
                                               Sc
                                                        1883
359
              6
                                              1080
                                                     9-1862
                           Baldwin
                                                               4-6-0
                                                                      171/2 x22"
                                                                                  48"
                                                                                       67500
                                               Sc
                                                        1883
360
                           Baldwin
                                                    10-1869
                                              1984
                                                              4-4-0
                                                                      171/2x24"
                                                                                  60"
                                                                                       63000
      Sold-
             -Poulterer &
                          Co.
                                                    11-1898
361
      CRR
             8
                           Baldwin
                                              1118
                                                     3-1863
                                                                                 48"
                                                              4-6-0
                                                                      171/2 x22"
                                                                                       67500
                                               Sc.
                                                        1882
              9
                                             1121
362
                           Baldwin
                                                     3-1863
                                                              4-6-0
                                                                      171/2 x22"
                                                                                 48"
                                                                                       67500
                                               Sc.
                                                       1882
363
            10
                           Baldwin
                                             2741
                                                     3-1872
                                                              0-6-0T
                                                                        15x22"
                                                                                 46"
                                                                                       70000
      Renumbered
                     1251,
                           4-1900.
364
                           Baldwin
                                             1224
                                                     3-1864
      CRR 11
                                                              4-6-0
                                                                      171/2x22"
                                                                                 48"
                                                                                       67500
                                               Sc.
                                                       1883
365
             12
                           CRR*
                                                       1863
                                                              4-4-0
                                                                        16x24"
                                                                                 60"
                                                                                       58500
                                               Sc.
                                                       1875
366
            13
                           Baldwin
                                             1225
                                                     3-1864
                                                              4-6-0
                                                                      171/2x22"
                                                                                 48"
                                                                                       67500
                                               Sc.
                                                     4-1884
367
     CRR 14
                          New Jersey L W
                                                       1856
                                                              4-4-0
                                                                        16x22"
                                                                                 60"
                                                                                       54000
                                                       1881
                                               Sc.
368
            15
                          J. Brandt
                                                       1856
                                                              4-4-0
                                                                      1634x22"
                                                                                 60"
                                                                                       55125
                                               Sc.
                                                       1881
369
            16
                          J. Brandt
                                                       1856
                                                              4-4-0
                                                                      161/4×22"
                                                                                 60"
                                                                                       55125
                                               Sc.
                                                       1881
370
            17
                          J. Brandt
                                                       1857
                                                              4-4-0
                                                                      163/4x22"
                                                                                 60"
                                                                                       55125
                                               Sc.
                                                       1876
371
            18
                          J. Brandt
                                                       1857
                                                              4-4-0
                                                                      161/4x22"
                                                                                 60"
                                                                                       55125
                                               Sc.
                                                       1881
372
            23
                          Baldwin
                                             1230
                                                     4-1864
                                                              4-6-0
                                                                      171/2x22"
                                                                                 48"
                                                                                       67500
                                               Sc.
                                                       1883
373
                                             1233
                          Baldwin
                                                     4-1864
                                                             4-6-0
                                                                     17½x22"
                                                                                 48"
      Nos. 354-373 were received from the Catawissa R. R. and entered service on
      the P & R Nov. 1872. The Catawissa number follows the P & R road num-
      ber.
            They were replaced by the following
354
     137
                          P&R
                                                    10-1875
                                                                        17x22" 681/2" 75400
                                                              4-4-0
                                                              4-4-0 17x22" 68½" 75400
4-4-0W18½x22" 68½" 95000
355
     138
                          P&R
                                                    11-1875
356
     171
                          P
                             & R
                                                    12-1882
357
                          P
     174
                             & R
                                                     3-1884
                                                              4-4-0W181/2x22" 681/2" 95000
```

No.	Name & 1900	# Builder		Date	Type	Cyl.	Dr	Wt
358	1700	P&R				18½x22"		
270	197	P & R*		8-1898	4 4 0 W	18½x22"	601/1	100000
359	172	P & R		2-1883	4.4.0W	18½x22"	601/1	05000
			16509		1-4-UW	22.200	568	163000
360	980	Baldwin	10509	3-1882	2-8-0	22x28"		163000
361	170	P&R			4-4-0W	18½x22″ 18½x22″	601/1	93000
363	179	P & R*	6353	5-1898				
362	785	Baldwin	6352	8-1882	2-8-0W		70/2"	114000
364	173	P&R		4-1883	4-4-UW	18½x22" 17x22"	00/2	72200
365	6 11 141-4	P&R		6-1875				73300
3/5	Sold—Atlantic	City R. R.	15030	2-1889		bered 10		146000
365	933	Baldwin	15039	9-1896		4-24x26"		
366	100	P & R		2-1884		18½x22"		
307	199	P & R*	F711	2-1898		18½x22"	681/2"	110375
367	751	Baldwin	5711	7-1881	2-8-0W			
368	752	Baldwin	5716	7-1881	2-8-0W	20x24"		
369	753	Baldwin	5723	7-1881	2-8-0W	20x24"	501/2"	114000
370	123	P & R	FE20	4-1876	4-4-0	17x22"		
371	756	Baldwin	5732	7-1881	2-8-0W	20x24"		
372	100	P&R		3-1883	4-4-0W	18½x22"	681/2"	95000
200	198	P & R*		4-1898		18½x22"		
373	104	P&R		9-1882		18½x22"		
	196	P & R*		6-1897		18½x22"	681/2"	
374	443	P&R		11-1872	4-6-0	18x22"	48"	85000
375	444	P. & R		11-1872	4-6-0	18x22"	48"	85000
376		P&R		12-1872	4-6-0	18x22"	48"	85000
			Sc.	7-1897				
376	311	Baldwin	15880	4-7898		13-22x26"		
377		P & R		12-1872	4-6-0	18x22"	48"	85000
			Sc.	8-1897				
377	312	Baldwin	15881	4-1898		3-22x26"		
378		P&R		1-1873	4-6-0	18x22"	48"	85000
			Sc.	4-1894				
378	317	Baldwin	14675	1-1896		3-22x26"		
379	445	P&R		1-1873	4-6-0			85000
380	491	P&R		5-1873	4-6-0	18x24"	54"	89000
381		P & R		6-1873	4-4-0	17x22"	3	3
			Sc.					
382	492	P & R		6-1873	4-6-0	18x24"	54"	89000
383	82 Sold—Reading 313	P&R		6-1873	4-4-0	17x22"	611/2"	73300
	Sold—Reading	& Columbia R	. R.	1-1898	Renuml	bered 10	92	
383	313	Baldwin	15883	4-1898	4-4-2W1	3-22x26"	841/4"	153800
384		P&R		6-1873	0-4-0	9x16"	34"	25500
			Sc.	4-1897				
384	314	Baldwin P & R	15883	4-1898	4-4-2W1	3-22x26"	841/4"	153800
385		P & R		7-1873	0-4-0			25500
	Sold-Poulterer	2.00		5-1894				
385	316	Baldwin	14336	6-1895	4-2-2W	13-22x26*	84"	122400
386		Par		7-1873	4-6-0	18x24"	54"	89000
	518	P & R*			4-6-0W	18x24"		103400
387		P&R		7-1873	4-4-0	17x22"	611/2"	3
	Sold-Pa. Nut			6-1899			,-	
387		Baldwin	17349	1-1900	2-8-0	22x28"	56"	165000
388	1016 493	P&R		4-1873	4-6-0	18x24"	54"	89000
389	127	P&R		8-1873	4-4-0	17x22"		
390		P&R		8-1873	4-6-0	18x24"	54"	89000
200	521	P & R*		5 .0.5	4-6-0W	18x24"		103400
391	494	P&R		9-1873	4-6-0	18x24"	54"	89000
392	495	P&R		9-1873	4-6-0	18x24"	54"	89000
393		P & R		9-1873	4-6-0	18x24"	54"	89000
	510	P & R*		11-1888	4-6-0	18x24"	54"	95000
					. 0 0	JOHN T	,	





P. & R. "Ariel"-Reading Shops, 1872.



Longitudinal Section of Fast Express Engine with Wootten firebox.

No.	Name & 1900 #	Builder		Date	е Туре	Cyl.	Dr	. Wt.	
394	500	P&R		10-1873	4-6-0	18x24"	54"	89000	
205	509	P & R*		10 1073	4-6-0	18x24"	54"	95000	
395	710	P&R		10-1873	4-6-0	18x24"	54"	89000	
	519	P & R*		5-1891	4-6-0W	18x24"		103400	
396	128	P&R		4-1874	4-4-0	17x22"	611/2"	73300	
397		P&R		4-1874	4-4-0	17x22"	611/2"	73300	
	Sold-Pa. Nut &	Bolt Co.		6-1899					
397	1017	Baldwin	17350	1-1900	2-8-0	22x28"	56"	165000	
398	136	P&R	11270	6-1874	4-4-0	17x22"			
399	129	P&R		7-1874	4-4-0	17x22"	611/2"		
400		Baldwin	704	6-1856	0-8-0	16x20"	42"		
400	Kittatinny			1876	0-0-0	10320	42	44000	
400	From Reading &		R. Sc.		4.40	1722"	611/1	72200	
400	134	P&R	2450	6-1876	4-4-0	17x22"			
401	Maiden Creek	Baldwin	3450	10-1873	2-6-0	17x22"	48"	63000	
	From Berks Co. R		Sc.	3-1900					
402		Baldwin	3411	9-1873	2-6-0	17x22"	48"	63000	
			Sc.	2-1900					
403	1450	Baldwin	3413	9-1873	2-6-0	17x22"	48"	63000	
404	Slatington (1451)	Baldwin	3452	10-1873	2-6-0	17x22"	48"	63000	
	From Berks Co. R								
405	501	P&R		4-1876	4-6-0	18x24"	54"	89000	
406	502	P&R		9-1876	4-6-0	18x24"	54"	89000	
407	503	P&R		10-1876	4-6-0	18x24"	54"	89000	
408	703	P&R		1-1877	4-6-0W	18x24"	54"	98300	
400	508	P & R*		1-10//	4-6-0		54"	95000	
400				0.1076		18x24"			
409	141	P&R		9-1876	4-4-0		681/2"		
410	135	P&R		3-1878	4-4-0	17x22"		73300	
411	206	P & R		5-1880	4-4-0W	21x22"		103000	
412	513	P&R		3-1878	4-6-0W	18x24"	54"	98300	
413	702	Baldwin	4921	1-1880	2-8-0W	20x24"	501/2"	113900	
414	703	Baldwin	4932	1-1880	2-8-0W	20x24"	501/2"	113900	
415	704	Baldwin	4935	1-1880	2-8-0W	20x24"	501/2"	113900	
416	705	Baldwin	4936	1-1880	2-8-0W	20x24"		113900	
417	706	Baldwin	4937	1-1880	2-8-0W	20x24"	501/3"	113900	
418	700	Baldwin	4939	1-1880	2-8-0W	20x24"		113900	
110	714	P & R*	7222	2-1899	2-8-0W	20x24"	501/4	120000	
419	707	Baldwin	4949	2-1880	2-8-0W	20x24"	501/n	113900	
420	708		4952	2 1000					
		Baldwin		2-1880	2-8-0W	20x24"	70/2"	113900	
421	709	Baldwin	4954	2-1880	2-8-0W	20x24"		113900	
422	710	Baldwin	4958	2-1880	2-8-0W	20x24"		113900	
423	711	Baldwin	4962	2-1880	2-8-0W	20x24"	501/2"	113900	
424	712	Baldwin	4965	2-1880	2-8-0W	20x24"		113900	
425	713	Baldwin	4969	2-1880	2-8-0W	20x24"		113900	
426	715	Baldwin	4970	2-1880	2-8-0W	20x24"		113900	
427		Baldwin	4978	2-1880	2-8-0W	20x24"	501/2"	113900	
	722	P & R*		12-1898	2-8-0W	20x24"	501/2"	129000	
428	716	Baldwin	4977	2-1880	2-8-0W	20x24"		113900	
429	717	Baldwin	4989	3-1880	2-8-0W	20x24"		113900	
430	718	Baldwin	4991	3-1880	2-8-0W	20x24"		113900	
431	710	Baldwin	4999	3-1880	2-8-0W	20x24"		113900	
121	723	P & R*	7227	11-1898	2-8-0W	20x24"		120900	
432	719	Baldwin	5001	3-1880	2-8-0W	20x24"		113900	
433		Baldwin	3675	12-1874	4-4-0	14x24"	58"	67000	
134	Sold—Atlantic Cit		(20	3-1898	Renumb			=2400	
434	3	Baldwin	638	3-1855	4-4-0	15x22"	54"	53400	
			Sc.	1881					
435	4	Baldwin	1800	12-1868	4-4-0	16x24"	62"	73000	
	Sold—Pa. Nut &	Bolt Co.		11-1898					
436	5	Baldwin	1971	9-1869	4-6-0	18x22"	52"	8200C	
	Sold-Poulterer &	Co.		11-1898					

No.	Name & 1900 #	Builder		Date	г Туре	Cyl.	Dr.	Wt.
437	7	Baldwin	1324	12-1864	4-6-0	18x22"	50"	70000
438	8 (522)	Baldwin	Sc. 2156	1883 6-1870	4-6-0	18x22"	52"	82000
439	9	P & R*		1873	4-4-0	15x22"	60"	59000
440	10	Baldwin	Sc. 1160 Sc.	12-1885 8-1863 8-1884	0-4-0	11x16"	36"	33000
441	11 (527)	Baldwin	3583	5-1874	4-6-0	18x22"	52"	87000
442	12	J. Brandt	Sc.	1857 8-1882	4-4-0	15x24"	60"	58000
443	13	Baldwin	1201 Sc.	1-1864 12-1883	4-6-0	18x22"	50"	70000
444	14 (528)	Baldwin	3666	11-1874	4-6-0	18x22"	52"	87000
445	15 (1238) Renumbered 1058	Baldwin	4449	10-1878 11-1886	0-4-0	11x16"	36"	41000
446	16 (1234)	Baldwin	3490	11-1873	0-4-0	11x16"	36"	38000
447	17	Baldwin	1340	2-1865	4-6-0	18x22"	50"	70000
448	18	Baldwin	Sc. 996	1881 4-1861	4-4-0	14x24"	60"	51250
			Sc.	11-1883	4.4.0		c0+	£4000
449	19	Baldwin	1223 Sc.	3-1864 5-1884	4-4-0	15x24"	60"	54000
450	20	Baldwin	1208	2-1864	4-6-0	18x22"	50"	70000
451	21	Baldwin	Sc. 1314	6-1881 11-1864	4-4-0	15x24"	60"	54000
			Sc.	1883				
452	22	Baldwin	1339 Sc.	2-1865 6-1884	4-6-0	18x22"	50"	70000
453	23	Baldwin	1489 Sc.	3-1866 10-1882	4-6-0	18x22"	54"	72009
454	24	Baldwin	1674	11-1867	4-4-0	16x24"	60"	73000
455	25	Baldwin	Sc. 1675	4-1900 11-1867	4-4-0	16x24"	.60"	73000
	Sold-Pa. Nut &	Bolt Co.		11-1899				
456	26 (523)	Baldwin	1733	6-1868	4-6-0	18x22"	52"	82000
457	27	Baldwin	1799 Sc.	11-1868 3-1897	4-4-0	16x24"	60"	73000
458	28 (524)	Baldwin	1813	12-1868	4-6-0	18x22"	52"	82000
459	29	Baldwin	1968	9-1869	4-6-0	18x22"	52"	82000
460	20 (1225)	Daldwin	Sc. 2044	3-1895 12-1869	0-4-0	11x16"	36"	33000
460 461	30 (1235) 31	Baldwin Baldwin	2043	12-1869	4-6-0	18x22"	52"	82000
401	Sold-Pa. Nut &		2017	11-1898	100	10/10/2		02000
462	32 (119)	Baldwin	2148	5-1870	4-4-0	16x24"	60"	73000
463	33	Baldwin	2105	3-1870	0-4-0	11x16"	36"	33000
	Sold—West Point		*****	5-1886	4.4.0		co	<b>M3000</b>
464	34 C-14 D- N- 0	Baldwin	2205	8-1870	4-4-0	16x24"	60"	73000
465	Sold—Pa. Nut & 35 (525)	Baldwin	2203	11-1898 8-1870	4-6-0	18x22"	52"	80500
466	36 (526)	Baldwin	2204	8-1870	4-6-0	18x22"	52"	80500
467	37	Baldwin	2207	8-1870	4-6-0	18x22"	52"	80500
			Sc.	8-1894				
468	38	Baldwin	2827 Sc.	6-1872 4-1900	4-4-0	16x24"	62"	73000
469	39 (120)	Baldwin	2858	7-1872	4-4-0	16x24"	62"	73000
470	40 (1239) Renumbered 1059	Baldwin	3115	1-1873 12-1886	0-4-0	11x16"	36"	38000
471	41 (112)	Baldwin	3219	4-1873	4-4-0	15x24"	44"	61000
472	42 (2)	Baldwin	3239	4-1873	4-4-0	14x24"	58"	67000
	Sold-Atlantic Ci			2-1889	Renumb	ered 101	10	
473	43 (1236)	Baldwin	3509	11-1873	0-4-0	11x16"	36"	38000

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Name & 1900 #
                              Builder
                                                                Type
No.
                                                        Date
                                                                         Cyl.
                                                                                  Dr. Wt.
                                                                        15x24"
474
                                                    11-1873
                                                                                 58"
      44 (3)
                           Baldwin
                                             3507
                                                              4-4-0
                                                                                      61000
                                                              Renumbered 1003
      Sold-Atlantic City R R
                                                     1-1898
                                                                        15x24"
                                                                                 58"
475
                           Baldwin
                                             3579
                                                     5-1874
                                                                                       61600
      45
                                                              4-4-0
                          Bolt Co.
      Sold-Pa. Nut &
                                                    11-1898
476
      46 (113)
                                             3642
                                                     9-1874
                                                                        15x24"
                                                                                 58"
                                                                                       61000
                           Baldwin
                                                              4-4-0
477
      47 (114)
                           Baldwin
                                             3643
                                                     9-1874
                                                              4-4-0
                                                                        15x24"
                                                                                 58"
                                                                                       61000
                                                                        14x22"
                                                                                 44"
478
                                                                                       56000
      48 (1202)
                           Baldwin
                                             3773
                                                     9-1875
                                                              0-4-0
479
      49 (142)
                                                    11-1875
                                                              4-4-0
                                                                        17x24"
                                                                                 61"
                                                                                       88000
                           Baldwin
                                             3790
                                                                        17x24"
                                                                                 61"
                                                    11-1875
480
      50
                                             3791
                                                              4-4-0
                           Baldwin
                                                                                       88000
                                                                        17x24" 681/2"
         (226)
                           P & R*
                                                     3-1881
                                                              4-4-0W
                                                                                       90000
                           Baldwin
                                                                        17x24"
                                                                                 61"
481
     51
227
                                             3870
                                                     4-1876
                                                              4-4-0
                                                                                       88000
                                                                        17x24"
                                                    11-1880
                                                              4-4-0W
                                                                                681/2"
                                                                                       90000
                           P & R*
482
      52
                                             3872
                                                     4-1876
                                                              4-4-0
                                                                        17x24"
                                                                                 61"
                                                                                       88000
                           Baldwin
      230
                                                     6-1898
                                                              4-4-0W
                                                                        17x24" 681/2"
                                                                                       94000
                           P & R*
483
     53
                           Baldwin
                                             3914
                                                     6-1876
                                                              4-6-0
                                                                        18x22"
                                                                                 52"
                                                                                       87000
                                               Sc.
                                                     4-1881
                                                                                 52"
                                             3920
                                                     6-1876
                                                                                       87000
484
      54 (529)
                           Baldwin
                                                              4-6-0
                                                                        18x22"
                                                                        14x22"
                                                                                 44"
      55 (1203)
                                             3936
485
                                                     7-1876
                                                              0 - 4 - 0
                                                                                       56000
                           Baldwin
486
                                             3941
                                                              0-4-0
                                                                        11x16"
                                                                                 36"
                                                                                       41000
      56 (1237)
                           Baldwin
                                                     7-1876
     57
                                                     8-1876
                                                                        17x24"
                                                                                 61"
                                                                                       88000
                                             3973
                                                              4-4-0
487
                           Baldwin
                                              Sc.
                                                     2-1900
488
                                             3974
                                                     8-1876
                                                                        17x24"
                                                                                 61"
                                                                                       88000
                                                              4-4-0
                           Baldwin
      Sold—Poulterer & Co.
                                                    11-1898
      The above group of engines were received from the North Pennsylvania R. R., and placed in service on the P & R in May, 1879. The No. Penn. R. R.
      immediately follows the P & R number and the P & R number of 1900 is
      given in ().
101 (143)
489
                                                                        17x24"
                                             3847
                                                     3-1876
                                                              440
                                                                                 61"
                           Baldwin
                                                                                 61"
                                                                        17x24"
490
      102 (228)
                           Baldwin
                                             3850
                                                     4-1876
                                                              4-4-0
                                                                                       88000
                                                              4-4-0W
                                                                        17x24" 681/2"
                                                                                      90000
                           P & R*
                                                                                 61"
                                                              440
                                                                        17x24"
                                                                                      88000
491
                                                     4-1876
      103 (229)
                           Baldwin
                                             3874
                                                                        17x24" 681/2"
                           P & R*
                                                              4-4-0W
                                                                                      90000
492
      104 (530)
                                             3932
                                                     6-1876
                                                              4-6-0
                                                                        18x22"
                                                                                 52"
                                                                                       87000
                           Baldwin
                                                                        17x24"
                                                                                 61"
493
      105 (144)
                           Baldwin
                                             3975
                                                     8-1876
                                                              4-4-0
                                                                                      88000
                                                                                61"
                                                                        17x22"
494
      106 (118)
                                             3860
                                                     4-1876
                                                              4-4-0
                           Baldwin
495
      107
                          Grant
                                                     2-1889
      Sold—Atlantic City R R
                                                             Renumbered 1006
                                                                                 & Bound
The in-
      The above seven locomotives were received from the Delaware & Brook R. R. and were placed in service on the P & R in May, 1879.
      dication of numbers is the same as in the No. Penn. R. R. series.
      All of the above engines that were scrapped prior to 1900 were replaced by
      the following:
433
     565
                           Baldwin
                                            16656
                                                     4-1899
                                                             4-6-0W 14-24x26" 61" 161000
434
                                                     7-1881
                                                             2-8-0W
                                                                       20x24" 501/2"114000
                           Baldwin
                                             5726
                                                              2-8-0W 20x24" 50½"119600
4-6-0W14-24x26" 61"161000
     757
                           P & R*
                                                     1-1898
                                                              2-8-0W
                                                     4-1899
435
     566
                          Baldwin
                                            16657
436
     567
                                                     4-1899
                                                              4-6-0W 14-24x26" 61" 161000
                           Baldwin
                                            16658
437
                                                    10-1883
                                                             0-6-0W
                                                                       16x18" 43"
     1292
                          P&R
                                                                                      61600
                          P&R
                                                              4-4-0W181/2x22" 681/2"104500
439
     203
                                                     8-1886
                          P&R
                                                              4-4-0W181/2 x22" 681/2" 97800
440
     190
                                                     4-1884
                                                              4-4-0W181/2x22" 611/2" 97000
                          P & R*
442
     169
                          P&R
                                                     8-1882
                                                             4-4-0W181/2x22" 681/2" 95000
                                                              4-4-0W 18½ x22" 68½"
                          P&R
                                                     2-1884
5-1898
443
     200
                          P & R*
                                                              4-4-0W181/2x22" 681/2"100000
                                                             2-8-0W 20x24" 501/2"114000
447
     758
                          Baldwin
                                            5738
                                                     7-1881
                                                             4-4-0W18½x22" 61½" 97800
4-4-0W18½x22" 61½" 97000
                                                     2-1884
     188
448
                          P&R
                          P
                             & R*
                                                     8-1898
449
                          P&R
                                                              4-4-0W181/2x22" 611/2" 97800
     156
                                                     4-1884
                          P
                                                                                      53000
450
                             & R
                                                     6-1881
                                                             0-4-0W
                                              Sc
                                                     3-1897
450
                                                     4-1899
     568
                          Baldwin
                                            16659
                                                             4-6-0W14-24x26" 61" 161000
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Name & 1900 #
No.
                             Builder
                                                            Type
                                                                    Cvl.
                                                     Date
                                                                             Dr. Wt.
451
      1290
                         P&R
                                                  9-1883 0-6-0W 16x18" 43" 61600
                          P&R
                                                          4-4-0W181/2x22" 611/2" 97800
452
      158
                                                  5-1884
                          P&R
                                                          4-4-0W181/2x22" 611/2" 97000
453
      170
                                                 10-1882
                          P & R*
                                                 11-1899
                                                         4-4-0W18½x22" 68½"100000
                                                          A-6-0W14-24x26" 61" 161000
455
      569
                                         16660
                         Baldwin
                                                  4-1899
457
      1302
                         Baldwin
                                         16617
                                                  4-1899
                                                          0-6-0W
                                                                   20x24"
                                                                            50" 121000
                                                          2-8-0W14-24x26" 551/2"146000
459
      934
                         Baldwin
                                         15040
                                                  9-1896
      1303
                                                  4-1899
                                                                            50" 121000
 461
                         Baldwin
                                         16618
                                                          0-6-0W
                                                                   20x24"
463
      1295
                                                          0-6-0W
                                                                    16x22"
                                                                            44"
                         P&R
                                                 11-1886
                                                                                 74300
                                                                            50" 121000
464
      1304
                         Baldwin
                                         16619
                                                  4-1899
                                                          0-6-0W
                                                                   20x24"
467
                                                          2-8-0W14-24x26" 551/2"146000
      035
                                         15041
                                                  9-1886
                         Baldwin
                                                          0-6-0W
                                                                    16x22" 44" 74300
 470
      1296
                         P&R
                                                 11-1886
472
      936
                         Baldwin
                                          15042
                                                  9-1896
                                                          2-8-0W14-24x26" 551/2"146000
474
      1305
                                          16620
                                                  4-1899
                                                          0-6-0W
                                                                            50" 121000
                          Baldwin
                                                                   20x24"
      1306
                                                                   20x24"
                                                                            50" 121000
475
                                          16621
                                                  4-1899
                                                          0-6-0W
                         Baldwin
                                                                   20x24" 501/2"114000
483
      701
                         Baldwin
                                           5570
                                                  4-1881
                                                          2-8-0W
                                                  1-1900
                                                                    22x28"
                                                                            56" 165000
488
      1018
                                          17351
                                                          2-8-0W
                         Baldwin
495
                                                          2-8-0W14-24x26" 551/2"146000
      937
                         Baldwin
                                          15043
                                                  9-1896
             2-8-0W 20x24" 501/2" 120# 98300 113900 19390# T. E.
496
                                           5013
                                                  3-1880
                         Baldwin
      721
724
497
                         Baldwin
                                           5019
                                                  3-1880
498
                                          5035
                         Baldwin
                                                  4-1880
499
      725
                         Baldwin
                                           5036
                                                  4-1880
      726
500
                         Baldwin
                                           5047
                                                  4-1880
501
                                           5050
      727
                         Baldwin
                                                  4-1880
      728
502
                                           5065
                                                  5-1880
                         Baldwin
503
      729
                                          5075
                                                  5-1880
                         Baldwin
504
      759
                                          6156
                                                  4-1882
                                                          2-8-0W
                                                                   20x24" 501/2"114000
                         Baldwin
505
      760
                                                  4-1882
                                                          2-8-0
                                                                    20x24" 50½"114000
                                          6154
                         Baldwin
                                                                   21x22" 681/2"103000
506
      207
                         P&R
                                                  6-1880
                                                          4-4-0W
507
                                          5000
                                                  3-1880 4-2-2W
                                                                   18x24" 78" 85000
                         Baldwin
      Eames Vacuum Brake Locomotive, returned to builder, 1880 and sold to
      Lovett Eames.
        2-8-0W 20x24" 50½" 120# 99500 114000 19390# T. E. (a)2-8-0W 20x24" 50½" 150# 104100 119600 24235 (rebuilt)
                                                    778 Baldwin
507
      761
           Baldwin
                          6164
                                 4-1882
                                               524
                                                                         6299
                                                                                7-1882
508
                                 4-1882
      762
           Baldwin
                          6166
                                               525
                                                     779
                                                          Baldwin
                                                                         6302
                                                                                7 - 1882
                                               526
509
      763
                                 5-1882
                                                     780
           Baldwin
                          6200
                                                          Baldwin
                                                                         6306
                                                                                7-1882
510
                                               527
                          6201
                                 5-1882
                                                                                7-1882
           Baldwin
                                                    781
                                                          Baldwin
                                                                         6310
      764
                                 5-1897
                                                                                7-1882
           P & R* (a)
                                               528
                                                     782
                                                          Baldwin
                                                                         6309
                                 5-1882
                                               529
511
      765
                          6213
                                                     783
           Baldwin
                                                          Baldwin
                                                                         6329
                                                                                8-1882
512
                          6214
                                 5-1882
                                               530
                                                    784
                                                                                8-1882
     766
                                                          Baldwin
                                                                         6332
           Baldwin
513
                          6222
                                 5-1882
                                               531
                                                    786
                                                                                8-1882
           Baldwin
                                                          Baldwin
                                                                         6340
                                 12-1898
                                                                                8-1882
7-1883
      772
           P & R* (a)
                                               532
                                                     787
                                                          Baldwin
                                                                         6341
                                 5-1882
514
                                               533
                                                     789
           Baldwin
                          6221
                                                          Baldwin
                                                                         6834
      773
           P & R* (a)
                                 12-1898
                                               534
                                                          Baldwin
                                                                         6833
                                                                                7-1883
515
                          6237
                                 6-1882
     767
           Baldwin
                                               535
                                                          Baldwin
                                                                         6849
                                                                                7-1883
516
      768
           Baldwin
                          6241
                                 6-1882
                                                     791
                                                          P & R* (a)
                                                                                11-1898
                          6242
                                 6-1882
517
                                               536
                                                                         6854
                                                                                7-1883
      769
           Baldwin
                                                          Baldwin
                                                          P & R* (a)
                                                     792
518
           Baldwin
                          6243
                                 6-1882
                                                                                12-1898
                                                     793
      774
           P & R* (a)
                                  1-1899
                                               537
                                                                         6865
                                                                                7-1883
                                                          Baldwin
519
           Baldwin
                          6255
                                 6-1882
                                               538
                                                     794
                                                                         6859
                                                                                 7-1883
     770
                                                          Baldwin
                          6259
                                 6-1882
                                                                                8-1883
520
     771
                                               539
                                                     795
                                                                         6872
                                                          Baldwin
           Baldwin
521
                          6274
                                 7-1882
                                                                                7-1883
     775
                                               540
                                                    796
                                                          Baldwin
                                                                         6870
           Baldwin
522
     776
                          6278
                                 7 - 1882
                                               541
                                                    797
                                                          Baldwin
                                                                                8-1883
           Baldwin
                                                                         6877
523
           Baldwin
                          6295
                                 7-1882
                                               542
                                                    798
                                                          Baldwin
                                                                         6881
                                                                                8-1883
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543 Allentown Iron Co. (?) 5-1889 (?) No data—Sc. 8-1898. 543 1019 Baldwin 17352 1-1900 2-8-0 22x28" 56" 165000

		0-4	4-0 13x22"	44" 145#	60000	12080	0# T. E.		
544	1221	Baldwin	10694	2-1890	549	1220	Baldwin	10650	2-1890
545	1216			12-1889	550	1222		10645	2-1890
							Baldwin		
546	1217	Baldwin		12-1889	551	1223		10655	2-1890
547	1218			1-1890	552	1224		10693	2-1890
548	1219	Baldwin	10548	1-1890	553	1225	Baldwin	10696	2-1890
		4-6-0W	20x24" 61	1/2" 145#	93000 1	21000	19240# T.	E.	
554	531	Baldwin	10705	3-1890	562	539	Baldwin	10723	3-1890
555	532	Baldwin	10706	3-1890	563		Baldwin	10722	3-1890
556	533	Baldwin	10707	3-1890		540	P & R*		9-1893
557	534	Baldwin	10708	3-1890	564	541	Baldwin	10729	3-1890
558	535	Baldwin	10718	3-1890	565	542	Baldwin	10724	3-1890
559	536	Baldwin	10712	3-1890	566	543	Baldwin	10737	3-1890
560	537	Baldwin	10719	3-1890	567	544	Baldwin	10748	3-1890
561	538	Baldwin	10720	3-1890	568	545	Baldwin	10745	3-1890
				_					
		4-4-0W	21x22" 68	1/2" 160#	73000 1	07000	19260# T.	E.	
569	212	Baldwin	10901	3-1890	574	217	Baldwin	10938	6-1890
570	213	Baldwin	10898	5-1890	575	218	Baldwin	10939	6-1890
571	214	Baldwin	10902	5-1890	576	219	Baldwin	10940	6-1890
572	215	Baldwin	10908	5-1890	577	220	Baldwin	10949	6-1890
573	216	Baldwin	10918	5-1890	578	221	Baldwin	10956	6-1890
11)	210	Daluwin	10210	7-1090	210	241	Daluwiii	10970	0-1090
		2-8-0W	20x24" 50	1/2" 145#	105530	12170	00 24235# T	. E.	
579	876	Baldwin	10820	4-1890	584	881	Baldwin	10823	4-1890
580	877	Baldwin	10821	4-1890	585	885	Baldwin	10899	5-1890
581	878	Baldwin	10816	4-1890	586	882	Baldwin	10824	4-1890
582	879	Baldwin	10817	4-1890	587	883	Baldwin	10829	4-1890
583	880	Baldwin	10822	4-1890	701	005	Durawin	10027	11030
		2-8-0W	22x28" 50;	/2" 145#	131600	146700	33075# T.	E.	
588	938	Baldwin	10808	4-1890	591	942	Baldwin	10826	4-1890
589	939	Baldwin	10810	4-1890	592	941	Baldwin	10813	4-1890
590	940	Baldwin	10809	4-1890	593	943	Baldwin	10827	4-1890
		4-4-0W	21x22" 68	1/2" 160#	73000	107000	19260# T	. E.	
594	222	Baldwin	10948	6-1890	596	224	Baldwin	10969	6-1890
595	223	Baldwin	10955	6-1890	597	225	Baldwin	10971	6-1890
							ashore R. R		
	bere	d 4, 5, 6 a	and 7 respe	ctively.	iadeipilla	a se	ashore R. R	. and we	ie nuni-
		- , , ,							
		2-8	3-0W 14&2	4x26" 501	2" 175#	1310	000 149000		
598	950	Baldwin	12351	12-1891	603	955	Baldwin	12366	12-1891
599	951	Baldwin	12354	12-1891	604	956	Baldwin	12368	12-1891
600	952	Baldwin	12359	12-1891	605	957	Baldwin	12369	12-1891
601	953	Baldwin	12364	12-1891	606	958	Baldwin	12373	12-1891
602	954	Baldwin	12366	12-1891	607	959	Baldwin	12374	12-1891

608 609 610 611 612	4-6-0W 13½8 546 Baldwin 547 Baldwin 548 Baldwin 549 Baldwin 550 Baldwin	23x24" 61½" 175# 12382 12-1891 12383 12-1891 12379 12-1891 12393 1-1892 12396 1-1892	99200 130 613 551 614 552 615 553 616 554 617 555	500 17330# Baldwin Baldwin Baldwin Baldwin Baldwin	T. E. 12401 12402 12418 12425 12424	1-1892 1-1892 1-1892 1-1892 1-1892
618 619 620	2-4-2W 138 301 Baldwin 302 Baldwin 303 Baldwin	22x24" 78" 175# 12433 1-1892 12676 5-1892 12672 5-1892	73300 140000 621 304 622 305	0 12580# T Baldwin Baldwin	12679 12680	5-1892 5-1892
623	— Baldwin 1452 P & R*	3-1900 2	_	0x24" 61½"	165000 113000	
624 625 626	0-4-0 1226 Baldwin 1227 Baldwin 1228 Baldwin	14x22" 44" 145# 12750 6-1892 12751 6-1892 12757 6-1892	60000 1208 627 1229 628 1230	0# T. E. Baldwin Baldwin	12760 12761	6-1892 6-1892
629 630 631	0-6-0W 1297 Baldwin 1298 Baldwin 1299 Baldwin	20x24" 50" 145# 12763 6-1892 12764 6-1892 12769 6-1892	103000 236 632 1300 633 1301	665# T. E. Baldwin Baldwin	12770 12781	6-1892 6-1892
634	888 Baldwin	12999 10-1892	657 911	00 22515# . Baldwin	13178	1-1893
635 636 637 638 639 640 641 642 643 644 645 646 650 651 652 653 654 655 656	889 Baldwin 890 Baldwin 891 Baldwin 892 Baldwin 893 Baldwin 894 Baldwin 895 Baldwin 896 Baldwin 897 Baldwin 898 Baldwin 899 Baldwin 899 Baldwin 900 Baldwin 901 Baldwin 902 Baldwin 903 Baldwin 904 Baldwin 905 Baldwin 906 Baldwin 907 Baldwin 908 Baldwin 909 Baldwin 908 Baldwin 909 Baldwin 901 Baldwin 901 Baldwin 901 Baldwin 901 Baldwin 901 Baldwin 902 Baldwin 903 Baldwin 904 Baldwin 905 Baldwin 906 Baldwin 907 Baldwin 908 Baldwin 909 Baldwin	13000 10-1892 13007 10-1892 13008 10-1892 13012 11-1892 13019 11-1892 13028 11-1892 13029 11-1892 13029 11-1892 13029 12-1892 13069 12-1892 13070 12-1892 13070 12-1892 13088 12-1892 13107 12-1892 13127 12-1892 13127 12-1892 13126 12-1892 13126 12-1892 13126 12-1892 13144 1-1893 13161 1-1893 13162 1-1893 13185 1-1893	658 912 659 913 660 914 661 915 662 916 663 917 664 918 665 919 666 920 667 921 668 922 669 923 670 924 671 925 672 926 673 927 674 932 676 929 677 930 678 931	Baldwin	13184 13199 13200 13202 13203 13204 13230 13229 13234 13243 13302 13312 13317 13307 13329 13330 13342 13345 13346	1-1893 1-1893 2-1893 2-1893 2-1893 2-1893 2-1893 2-1893 2-1893 3-1893 3-1893 3-1893 3-1893 3-1893 3-1893 4-1893 4-1893

## 2-4-2W 13&22x24" 78" 175# 73300 140000 12580# T. E.

679	306	Baldwin	13408	5-1893	682		Baldwin	13412	5-1893
680	307	Baldwin	13409	5-1893		315	P & R*		1899
681	308	Baldwin	13411	5-1893	683	309	Baldwin	13413	5-1893
					604	310	Raldwin	13370	4_1803

The #682, when rebuilt by the P & R in 1899 was rebuilt to a 4-4-2, with a weight of 78700# on the drivers. Other dimensions the same.

2-8-0W	20x24"	501/2"	120#	99500	114000	19390#	T.	E.	
(a) W	20x24"	501/2"	150#	104000	119600	24235#	T.	E. (reb	uilt)

857		Baldwin		6974	10-1883	876		Baldwin	7197	3-1884
	799	P & R*	(a)		12-1898		817	P & R* (:	()	12-1894
858	800	Baldwin	()	6976	10-1883	877	818	Baldwin	7207	3-1884
859	801	Baldwin		6993	10-1883	878	0.0	Baldwin	7214	3-1884
860	802	Baldwin		6999	10-1883	0,0	819	P & R* (a		8-1897
861	803	Baldwin		7027	11-1883	879	015	Baldwin	7217	3-1884
862	Sc.	Baldwin		7032	11-1883	019	820	P & R* (a		11-1899
863	804	Baldwin		7076	12-1883	880	821	Baldwin	7218	3-1884
864	805	Baldwin		7078	12-1883	881	822	Baldwin	7227	3-1884
				7109					7232	3-1884
865	806	Baldwin			1-1884	882	823	Baldwin		
866	807	Baldwin		7113	1-1884	883	004	Baldwin	7240	3-1884
867	808	Baldwin		7141	1-1884	00.1	824	P & R* (2		5-1899
868		Baldwin		7145	1-1884	884	825	Baldwin	7246	4-1884
	809	P & R*	(a)		12-1898	885	826	Baldwin	7250	4-1884
869	810	Baldwin		7163	2-1884	886	827	Baldwin	7253	4-1884
870	811	Baldwin		7174	2-1884	887		Baldwin	7269	4-1884
871		Baldwin		7182	2-1884		828	P & R* (a		10-1899
	812	P & R*	(a)		10-1899	888	829	Baldwin	7271	4-1884
872	813	Baldwin		7183	2-1884	889	830	Baldwin	7284	4-1884
873	814	Baldwin		7185	2-1884	890		Baldwin	7287	4-1884
874	815	Baldwin		7188	2-1884		831	P & R* (a		12-1898
875	816	Baldwin		7194	2-1884	891	832	Baldwin	7292	5-1884

First 862 was scrapped 4-1899 and replaced with 862 1020 Baldwin 17380 1-1900 2-8-0 22x28" 56" 165000

892 Stag P & R 2 2-1851 No data. Wt. 32850 Sc. 3-1886 893 Gem P & R\* 1868 2-4-0 Wt. 24750 Sc. 9-1886

893 204 P & R 8-1886 4-4-0W 18½x22" 68½" 104500 893 205 P & R 9-1886 4-4-0W 18½x22" 68½" 104500

894 191 Baldwin 8008 6-1886 897 194 Baldwin 8018 7-1886 895 192 Baldwin 8009 6-1886 898 195 Baldwin 8024 7-1886 896 193 Baldwin 8015 7-1886 All rebuilt as above by P & R

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905
                                 6-1886
                                               931
      833
            Baldwin
                          8011
                                                      858
                                                           Baldwin
                                                                      9118
                                                                              3-1888(a)
906
                                               932
                                                           Baldwin (a) 9131
      834
                          8012
                                 6-1886
                                                      859
                                                                                 3-1888
            Baldwin
907
      835
                                  7-1886
                                               933
                                                                         9135
                                                                                 3-1888
            Baldwin
                          8016
                                                      886
                                                           Baldwin (c)
908
      836
                          8020
                                  7-1886
                                               934
                                                                         9379
                                                                                 7-1888
            Baldwin
                                                      887
                                                           Baldwin (c)
909
      837
            Baldwin
                          8025
                                  7-1886
                                               935
                                                      860
                                                           Baldwin (a)
                                                                         9385
                                                                                 8-1888
            Baldwin (a) 9003
                                               936
910
      838
                                  1-1888
                                                      861
                                                           Baldwin (a)
                                                                         9382
                                                                                 7-1888
                                                      862
911
            Baldwin (a)
                          9004
                                  1-1888
                                               937
                                                           Baldwin (a)
                                                                         9386
                                                                                 8-1888
                                 6-1899
      843
           P & R (b)*
B L W (a)
                                               938
                                                      863
                                                                         9420
                                                           Baldwin (a)
                                                                                 8-1888
912
      839
                          8977
                                 12-1887
                                               939
                                                      864
                                                                         9421
                                                                                 8-1888
                     (a)
                                                           Baldwin (a)
            Baldwin (a)
                                 12-1887
913
      840
                         8978
                                               940
                                                                         9422
                                                                                 8-1888
                                                      865
                                                           Baldwin
                                                                     (a)
914
                                                                         9425
      841
            Baldwin
                     (a)
                         8988
                                  1-1888
                                               941
                                                      866
                                                           Baldwin
                                                                                 8-1888
                                                                    (a)
915
      842
            Baldwin
                     (a) 8989
                                  1-1888
                                               942
                                                      867
                                                                         9426
                                                                                 8-1888
                                                           Baldwin (a)
916
                                  1-1888
                                               943
                                                                         9429
                                                                                 8-1888
      844
            Baldwin
                     (a)
                          9010
                                                      868
                                                           Baldwin
                                                                     (a)
917
      845
            Baldwin
                     (a)
                          9008
                                  1-1888
                                               944
                                                           Baldwin
                                                                     (d)
                                                                         9423
                                                                                 8-1888
                                                           P & R (b)*
B L W (d) 9424
B L W (d) 9430
918
      846
            Baldwin
                          9031
                                  1-1888
                                                      869
                                                                                 9-1894
                     (a)
919
      847
            Baldwin
                     (a)
                          9032
                                  1-1888
                                               945
                                                      870
                                                                                 8-1888
                                               946
                                                                                 8-1888
920
      848
                         9047
                                 2-1888
            Baldwin
                     (a)
921
      840
            Baldwin
                          9048
                                 2-1888
                                                      871
                                                           P & R (b)*
                                                                                 2-1895
                     (a)
                     (a) 9070
                                                                 W
922
      850
                                 2-1888
                                               947
                                                                     (d)
                                                                         9439
                                                           BL
                                                                                 8-1888
            Baldwin
                                 2-1888
923
      851
            Baldwin
                         9071
                                                      872
                                                           P
                                                                 R (b)*
W (d)
                                                                                 7-1894
                     (a)
                                                              &
924
      852
            Baldwin (a) 9076
                                 2-1888
                                               948
                                                           B
                                                                     (d) 9444
                                                                                 8-1888
                                                              L
925
                                  2-1888
                                                              & R (b)*
      853
            Baldwin (a)
                         9085
                                                      873
                                                           P
                                                                                 5-1894
926
            Baldwin (a)
                                               949
                                                           B
                                                              L
                                                                 W
                                                                     (d) 9446
                         9087
                                 3-1888
                                                                                 8-1888
      884
            P & R (b)*
B L W (a)
                                                      874
                                                           P
                                                              & R (b)*
                                                                                 9-1895
927
      854
                          9098
                                 3-1888
928
      855
                                               950
                                                                                 9-1888
            Baldwin (a) 9099
                                 3-1888
                                                           B L W (d) 9464
929
      856
            Baldwin (a) 9105
                                  3-1888
                                                      875
                                                           P & R (b)*
                                                                                 1-1896
930
      857
            Baldwin (a) 9113
                                 3-1888
                   22x28" 501/2"
                                   140#
                                           135000
                                                            32200# T. E.
33075# T. E.
            2-8-0
                                                   150000
               W 22x28" 50½" 145#
                                          131800
                                                  147300
                                                            33075#
                                                                           (rebuilt)
951
      948
                          9294
                                               954
                                                                         9309
                                                                                 6-1888
            Baldwin
                               6-1888
                                                      944
                                                           Baldwin
952
      946
                          9295
                                 6-1888
                                               955
                                                      945
                                                                         9352
                                                                                 7-1888
            Baldwin
                                                           Baldwin
953
      947
            Baldwin
                          9307
                                 6-1888
                                               956
                                                      949
                                                           Baldwin
                                                                         9351
                                                                                 7 - 1888
     All rebuilt as above 1891-2.
          4-4-0
                   191/2 x24" 671/2" 160#
                                            91300
                                                   122900
                                                            18400# T. E.
                   191/2x24" 671/2" 160#
                                                    108200
                                            76350
                                                            18400
            (a)
                   19½x24" 68½" 160#
           (b)W
                                            87000
                                                   124000
                                                            18120
960
      238
                          9166
                                 4-1888
                                               964
                                                      246
                                                                         9177
                                                                                 4-1888
           Baldwin
                                                           Baldwin
                                               965
                                                      241
                                                                         9191
961
      249
                          9167
            Baldwin
                                 4-1888
                                                           Baldwin
                                                                                 4-1888
                                                                                 6-1888
962
      240
            Baldwin
                          9168
                                 4-1888
                                               966
                                                      247
                                                           Baldwin
                                                                         9323
      248
                          9173
                                 4-1888
963
            Baldwin
      The above engines were rebuilt by the Baldwin L. W. to (a) dimensions late
     in 1888 and again by the P & R to (b) dimensions from 1898-9.
            4-4-0 19x24" 681/2" 145# 84500 113500 15590# T. E.
                                 5-1888
                         9250
                                               970
                                                      250
                                                                         9254
                                                                                 5-1888
967
      242
            Baldwin
                                                           Baldwin
      243
                          9251
                                 5-1888
                                                      259
                                                                         9255
                                                                                 5-1888
968
                                               971
            Baldwin
                                                           Baldwin
      244
                          9252
                                 5-1888
                                               972
                                                      245
                                                                         9258
                                                                                 5-1888
969
            Baldwin
                                                           Baldwin
     No. 970 was rebuilt with 77500# on drivers 113000# on engine.
     No. 971W was rebuilt 191/2x24" 681/2" 160# 87000 124000 18120# T. E.
```

2-8-0

(a)W

(b) W

(c)W

(d)

20x24"

20x24"

20x24"

20x24"

20x24"

501/2"

501/2"

501/2"

501/2"

501/2"

120#

145#

145#

145#

150#

99500

104500

105500

109000

110160

114000

120000

121700

125500

124550

19390# T. E.

24235

24235

24235

```
No data. Sc. 1-1898
4-4-0 14x24" 58" 67000
No data. Sc. 8-1890
0-4-0 14x22" 44" 60000
1001 W & DR #1 Baldwin
1001 P & R #433 (1) Baldwin
1002 W & DR #2 ?
                                                    1872
                                    3675 12-1874
                   (33)
                                                   6-1896
                          Baldwin
                                          14916
1002
                                                                    14x22" 44" 60000
Sc. 1-1898
15x24" 58" 61600
18x22" 54" ?
     W & DR #3
P & R #474 ( 3)
W & DR #4 ( 7)
P & R #75
P & R #495
1003
                          P&R
                                                    1873
                                           3507
                                                  11-1873
                                                           4-4-0
1003
                          Baldwin
1004
                                           7837
                                                   3-1886
                                                           4-4-0
                          Baldwin
                                                 11-1862
                                                           4-4-0
                                                                     Sc. 3-1891
1005
                          P&R
                                                           4-4-0 Sold-Poulterer & Co.
1006
                          Grant
                                                   9-1876
                                                 11-1898
7-1877
      P & R #179 ( 6)
P & R #365 ( 4)
P & R #313 ( 5)
                                                                    17x22" 68½" 75400
17x22" 61½" 73300
17x22" 68½" 75400
1007
                         P & R
                                                           4-4-0
                          P&R
                                                          4-4-0
1008
                                                   6-1875
                          P&R
1009
                                                   3-1876
                                                           4-4-0
      P & R #472 (2)
                                                                    14x24" 58" 67000
                          Baldwin
                                           3239
                                                  4-1873 4-4-0
           4-4-0W 181/2 x22" 681/2" 160# 69000 104700 14950# T. E.
       8 Baldwin
                          9977
                                  5-1889
                                               1013 10 Baldwin
1014 11 Baldwin
                                                                          9980
1011
                                                                                  5-1889
                                                                          9981
1012
       9
          Baldwin
                          9978
                                  5-1889
                                                                                  5-1889
                                            73000 107000 19260# T. E.
            4-4-0W 21x22" 681/2" 160#
        16 Baldwin 9986
                                 5-1889
                                               1018 19 Baldwin 10031
1015
                                                       20 Baldwin
1016
        17
                          9987
                                  5-1889
                                               1019
                                                                       10001
                                                                                  5-1889
            Baldwin
                                               1020 21 Baldwin 10032
                                  5-1889
                          9997
1017
        18 Baldwin
      P & R #331
                          P&R
                                                 10-1871
                                                                    18x22" 48" 84000
1021
                                                          4-6-0
                          P & R*
                                                                    18x22"
      (31)
                                                  4-1898
                                                                            48"
                                                                                  91000
                                                          4-6-0
      P & R #19 (32)
P & R #186 (28)
P & R #292
1022
                          P&R
                                                  8-1874
                                                                    18x24"
                                                                            54" 89000
                                                          4-6-0
                                                                    18x22"
1023
                         Norris-Lanc.
                                                    1866 4-6-0
                                                                            48" 84000
                                                  9-1870
                                                                    18x22"
1024
                          P&R
                                                           4-6-0
                                                                             48" 84000
                          P & R*
                                                   3-1899 4-6-0
                                                                    18x22"
      (30)
                                                                            48"
                                                                                  91000
                          Baldwin 1885
                                                   5-1869 4-6-0
                                                                    18x22"
1025
      P & R 232
                                                                            48"
                                                                                  84000
      (29)
                                                                    18x22" 48"
                          P & R*
                                                 10-1897 4-6-0
                                                                                 97000
         4-4-2W 13&22x26" 841/4" 200# 81200 153800 14465# T. E.
                                                    26 Baldwin 15878
27 Baldwin 15879
        24 Baldwin 14739 3-1896 1028
1026
                                                                                 5-1898
        25 Baldwin
                          14740
1027
                                 3-1896
                                              1029
                                                                                 5-1898
          4-4-0 181/2 x22" 681/2" 160# 69000 104700 14950# T. E.
        12 Baldwin 14006 5-1894 1032 14 Baldwin 13 Baldwin 14007 5-1894 1033 15 Baldwin
                                                                      14008
1030
                                                                                 5-1894
1031
                                                                       14009
                                                                                5-1894
      The above came from the South Jersey R. R. and were numbered 4, 5, 6
      and 7 respectively
       4-4-0W 21x22" 68½" 160# 73000 107000 19260# T. E.
22 Baldwin 14013 5-1894 1035 23 Baldwin 14016 5-1894
1034
      The above were South Jersey R. R. Nos. 8 and 9.
       Name & 1900 #
                           Builder
No.
                                                    Date Type Cyl.
                                                                            D\tau. Wt.
1050
                          No data - Sc.
                                                 8-1893
1051 P & R #97
                          P&R
                                                 11-1863 4-6-0
                                                                    18x22"
                                                                            46"
                                                                                  68600
                                                         4-6-0W
      (482)
                          P & R*
                                                  1-1893
                                                                    18x22"
                                                                             48" 103000
1052
      P & R #98
                          P&R
                                                 12-1863 4-6-0
                                                                    18x22"
                                                                             46"
                                                                                  78600
                                                                    18x22"
      (481)
                         P & R*
                                                           4-6-0W
                                                                            48" 103000
                         P&R
                                                    1864 4-6-0
1053
                                                                    18x22"
                                                                            48"
      (401)
                                                                                  84000
      Sc. 9-1892
                         No data
                     P&R
1055 P & R #150
                                                 4-1865 0-4-0
                                                                   Sc. 4-1897
                                                                                  29000
```

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No.
         Name & 1900 #
                               Builder
                                                        Date Type Cyl.
                                                                                   D\tau.
                                                                                         Wt.
1056
       Sc. 8-1893
                            No data
1057
       Sc. 2-1895
                            No data
       Sc. 2-1097
P & R #445(1238) Baldwin
P & R #470(1239) Baldwin
H & P #1 (111) Baldwin
H & P #2
Sc.
W. G. Case R. Norri
1058
                                              4449
                                                     10-1878
                                                                                  36"
                                                               0 - 4 - 0
                                                                         11x16"
                                                                                        41000
1059
                                              3115
                                                                         11x16"
                                                                                  36"
                                                      1-1873
                                                               0 - 4 - 0
                                                                                        38000
                                                                         16x24"
1076
                                                      9-1874
                                                               4-4-0
                                                                                  58"
                                                                                        71000
                                              3639
1077
                                                      5-1893
1086
                                                                        Sc. 5-1889
Sc. 12-1897
                            R. Norris & Son
H. B. & Co.
                                                               4-4-0
1087
       Lititz
                                                      3-1865
                                                                 ?
1087
       P & R #31 (86)
                                                               4-6-0
                                                                         18x24"
                           P&R
                                                      1-1876
                                                                                  54"
                                                                                        89000
       Robt. Crane (81)
                                                                         17x22"
1088
                                                               4-4-0
                                                                                  56"
                                                                                        65600
                                                                         18x22"
1089
       Raleigh
                      (83)
                           P. & R
                                                                                  48"
                                                               4-6-0
                                                                                        84000
1090
                            Norris-Lanc.
       Ephrata
                                                      1 - 1866
                                                               4-6-0
                                                                         18x22"
                                                                                  46"
                                                                                        68600
       (84)
                            P & R*
                                                                         18x22"
                                                                                  48"
                                                               4-6-0W
                                                                                       103000
1091
       Columbia
                            P&R
                                                        1867
                                                               4-4-0
                                                                         Sc. 3-1889
                                                                                        56700
                                                                         18x22"
1092
       Oshkosh
                            Norris-Lanc.
                                                      8-1865
                                                               4-6-0
                                                                                  48"
                                                                                        68600
                                                Sc.
                                                     12-1897
       P & R #383 (82) P & R
Lancaster P & R
1092
                                                      6-1873
                                                               4-4-0
                                                                         17x22" 611/2" 73300
                                                                         18x24"
1093
                                                               4-6-0
                                                                                  54"
                                                        1876
                                                                                      89000
                            P & R*
                                                               4-6-0W
                                                                         18x24"
                                                                                  54" 103400
       (87)
1094
                                                                        Sc. 7-1894
       Union
                            No data
1095
       C. S. Malthy
                                               (88)
                                                               0-6-0W
                                                                         16x18"
                                                                                  43"
                                                                                        61600
      P & R #28
G & H #6
G & H #7
1096
                      (85)
                           P&R
                                                      5-1874
                                                                         18x24"
                                                                                  54"
                                                               4-6-0
                                                                                        89000
1106
                      (89)
                            Rogers
                                              3369
                                                      4-1883
                                                               4-4-0
                                                                         18x24"
                                                                                  62"
                                                                                        90000
                                                                         18x24"
                                                                                  62"
1107
                      (90)
                                              3471
                                                               4-4-0
                                                                                        90000
                           Rogers
                                                      5-1884
                                                                                  62"
1108
       G & H #8
                      (91)
                                                               4-4-0
                                                                         18x24"
                                                                                        99000
                           Baldwin
                                                                                  62"
       PP & B #1
                                                      2-1889
                                                                         17x24"
1200
                     (145)
                                              4112
                                                               4-4-0
                                                                                        80000
                            Rogers
       PP & B #2
                                                                                  62"
1201
                            Rogers
                                              4119
                                                      3-1889
                                                               4-4-0
                                                                         18x24"
                                                                                        96200
                                                                                  62"
                     (231)
                                                               4-4-0W
                            P & R*
                                                     11-1897
                                                                         18x24"
                                                                                       107000
                                                                                  62"
1202
       PP & B #3
                     (232)
                            Rogers
                                              4146
                                                                         18x24"
                                                      5-1889
                                                               4-4-0
                                                                                        96200
1203
       PP & B #4
                                              4150
                                                      6-1889
                                                               4-4-0
                                                                         18x24"
                                                                                  62"
                                                                                        96200
                            Rogers
                     (233)
                            P & R*
                                                      8-1899
                                                               4-4-0W
                                                                         18x22"
                                                                                  62"
                                                                                       107000
                                                                                  62"
1204
       PP & B #5
                            Rogers
                                              4161
                                                      7-1889
                                                               4-4-0
                                                                         18x24"
                                                                                       96200
                     (234) P & R*
                                                                                  62"
                                                                         18x22"
                                                      4-1898
                                                               4-4-0W
                                                                                       107000
1205
       PP & B #6
                            Rogers
                                              4162
                                                      7-1889
                                                               4-4-0
4-4-0W
                                                                         18x24"
                                                                                  62"
                                                                                        96200
                     (235)
                            P & R*
                                                     10-1898
                                                                         18x22"
                                                                                  62"
                                                                                       107000
                                                                                  62"
1206
                     (236)
                            Rogers
                                                                         18x24"
       PP & B #7
                                              4163
                                                      7-1889
                                                               4-4-0
                                                                                       96200
1207
       PP & B #8
                                                                                  62"
                            Rogers
                                              4220
                                                     11-1889
                                                               4-4-0
                                                                         18x24"
                                                                                       96200
                                                                                  62"
                     (237)
                            P & R*
                                                                         18x22"
                                                      4-1899
                                                               4-4-0W
                                                                                       107000
                                                                         19x24"
                   (1454)
                            Rogers
                                                                                  54"
1208
       PP&B # 9
                                              4221
                                                     11-1889
                                                               2-6-0
                                                                                       110000
       PP&B #10
1209
                   (1455)
                            Rogers
                                              4222
                                                     11-1889
                                                               2-6-0
                                                                         19x24"
                                                                                  54" 110000
                   (1456)
1210
       PP&B
              #11
                                              4287
                                                      5-1890
                                                                         19x24"
                                                                                  54"
                            Rogers
                                                               2-6-0
                                                                                      110000
1211
      PP&B #12 (1457) Roger
PP&B #13 (1458) BLW
PP&B #14 (1459) BLW
                                                               2-6-0
                            Rogers
                                              4288
                                                      5-1890
                                                                         19x24"
                                                                                  54"
                                                                                      110000
1212
                                             11089
                                                      8-1890
                                                               2-6-0
                                                                         19x26"
                                                                                  54"
                                                                                      110600
1213
                                             11093
                                                      8-1890
                                                               2-6-0
                                                                         19x26"
                                                                                  54" 110600
          Observation or Inspection Engines-Not Numbered in 12-1871
Witch
                            P & R*
                                                               2-2-2
                                                                                  45"
                                                                                       24075
                                                       1868
                                                                           8x8"
                            P & R*
                                                               Sold-
                                                                      P&RC&I Co.
                                                                                     4-1900
                                                                                  45"
                            P&R
Transit
                 (102)
                                                      7-1867
                                                               2-2-2
                                                                           8x8"
                                                                                       21375
Ariel
                            P
                              & R
                                                      8-1856
                                                                7
                                                                          18675
                                                                                 Re Alpha
                              & R*
                            P
                                                               2-2-2
Ariel
                 (103)
                                                      1 - 1872
                                                                           8x8"
                                                                                  45"
                                                                                       21375
                              & R*
                            P
                                                        1868
                                                                                   ?
                                                                                       24750
Gem
    Numbered 893, 1884
                                               Sc.
                                                      9-1886
Stag
                            P&R
                                                      2-1851
                                                                 ?
                                                                           ?
                                                                                   ?
                                                                                       33050
    Numbered 892, 1884
                                                      3-1886
                            Baldwin
                                             10174
                                                      8-1889
                                                              2-2-2
                                                                           8x8"
Black Diamond
Alpha-formerly first "Ariel"-renamed 12-1871. Sc. 1879
       The "Gem" came from and carried the same name on the Mine Hill R. R.
       W-Wide firebox locomotive.
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## READING LOCOMOTIVES 1900-1944

Coming now to the third period of the Philadelphia and Reading history, it is debatable which of the three has contributed the most to the development of that machine. The first produced mainly by trial and error, the engine itself, and the successful burning of coal with the

firebox raised above the engine bed.

The second era contributed the "culm" burning firebox, the heavy freight locomotive and the high speed Atlantics. The work of the third period has been to continue to improve to new standards of efficiency the work begun in the first two, and to keep abreast of the increasing demand, not for tractive power alone, but for sustained horsepower and economical operation. New types have been designed, mechanisms have been improved, and an infinite number of devices have been added until the present day locomotive is a veritable power

plant on wheels.

One of the first of the new classes of this group was one peculiar to the Reading. This was the A-4-a class and its successors in classes A-4-b and A-5-a. All were of the 0-4-0 type, with wide fireboxes and center cabs. The A-5-a class, with tractive power of 24,456 pounds and adhesive factor of 4.51 (that of the A-4-b is 5.01) is especially well adapted to work about wharves and in industrial plants, where short radius curves require the short rigid wheel base of a four wheel engine. These were the successors to the "go-devils," an 0-4-0 saddle tank engine, long used successfully by the Reading for similar work. The A-4-a class was originally equipped with 4-wheel "swallow-tail" tenders, carrying both coal and water, and which were later replaced with an eight wheel tender.

The switching classes also include 0-6-0 and 0-8-0 types. The five locomotives of the B-6-a class, built in 1903, were the only soft coal burning switchers with narrow fireboxes. The other 0-6-0's were built with modified Wootten boilers. Those of the B-8 class possess the unique feature of having fireboxes whose width, 9'-0", is greater than their length of 7'. These engines were designed as successors to the A-5-a class, in "short curve" service, and had a rigid wheel base of 9', only two feet greater than that of the A-5's, and develop a tractive power of

37,150 pounds.

The eight wheel switchers were supplemented by class E-4-a, consisting of 26 locomotives of the former I-4-d class, from which the pony truck was removed, to convert them from road engines to switchers. They were then renumbered 1410 to 1437 (except 1430 and 1435). By the conversion, years were added to the service of these engines outmoded for road work. The class E-5-s-a, #1490-1499, first built in 1924, represent the highest development, of the eight wheel switcher on the Reading.

In 1914, a change in design was inaugurated, which was to alter the long familiar appearance of Reading motive power by placing the cabs of wide firebox engines behind the firebox instead of ahead of it. The constantly increasing size of boilers; together with clearance limitations, necessitated this change, and it was accomplished by lengthening the frames and literally hanging the cab on the rear end of the firebox. Prior to this time, there had been much agitation against the centrally located cab, separating, as it did, the engineer and fireman. However, the increased size of boilers spelled the doom of the middle cab, rather than legislation or direction from the Interstate Commerce Commission.

Other than #1700, Class M-1-a, the first end cab locomotives with wide fireboxes in recent years, were those of Class D-11s, built by Baldwin in 1914, and nick-named "Bull-Moosers." They were probably the most powerful American type locomotives to be constructed, and represent its highest development. Although having drivers 68½ inches in diameter, it was originally planned to equip the D-11's with

80 inch wheels.

Going back a few years, the increasing number of locomotives on the road required facilities for repair greater than the company possessed and in 1900, construction of the present locomotive shops in Reading was begun. They were finished at a cost of over \$1,700,000 and have since been adequate to take care of repair work for the entire system, to convert and rebuild the road's power and to continue to build many of the current locomotives.

To improve motive power, it has been necessary to modernize existing power with such improvements as piston valve cylinders, outside valve motion, superheaters and, in several instances, to build practically new locomotives from those whose original design had become obsolete. To perform these functions of maintenance, conversion, and construction has been possible only because of the excellence of the

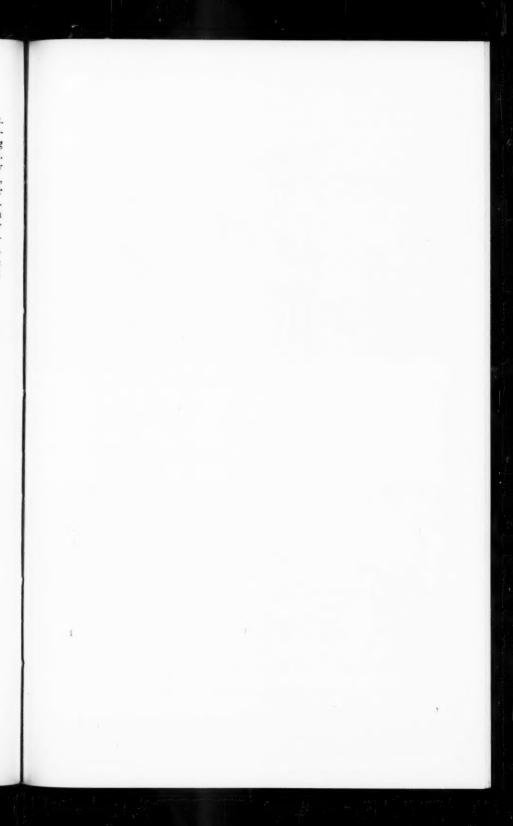
shop facilities at Reading.

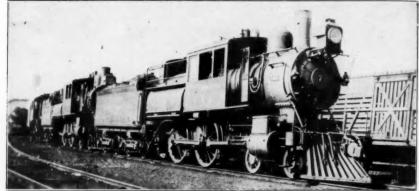
The American type, which reached its most advanced design in the Class D-11s, as mentioned above, was also favorably represented by the locomotives of the following classes: D-5-f, D-5-h, D-8-b, D-8-c and the D-9 classes. There were 35 locomotives of the first two classes, which were rugged, compact machines used in heavy suburban and short express runs. The D-8-b and c were further developments of these engines, while the D-9's were mostly early D-5 class rebuilt with 78 inch drivers (D-9-e had 74 inch wheels) and were principally used on the Atlantic City Division, where absence of grades permitted the use of high wheels.

Although the passing of the eight wheeler was directly due to the electrification of the Philadelphia area, the type had reached the limit of its possibilities and was, at that time, being replaced by ten-wheelers,

of which more will be said later.

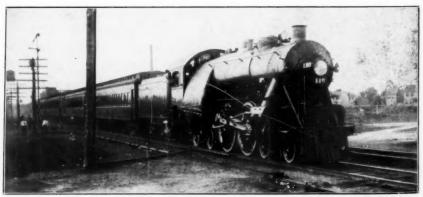
The Atlantic type, which had been so successfully used at the close of the 19th Century, predominated the fast passenger service even after the advent of the Pacific type in 1916. The oldest 4-4-2's, all with Vauclain Compound cylinders and 841/4 inch drivers, were equipped with wide fireboxes and center cabs. As stated before, the era of the compound cylinders was not a long one, and many of the Atlantics in 1903 had simple cylinders.





-Courtesy of C. E. Fisher.

P. & R. #7, D-1i, Reb. P. & R. 1903, at Camden, N. J.



-Courtesy of W. R. Osborne.

P. & R. #110-C-1a, Reading Shops, 1915.

Among the largest and finest center cab Atlantics were the classes P-5a and b locomotives, built at Reading Shops in 1906. Mr. Edward O. Elliott, at one time Chief Draughtsman for the road was largely responsible for their design in addition to some other well known classes. These locomotives had 86 inch drivers, which at the present time (12-1944), with three so equipped, represent the largest used on locomotives in this country.

Many of the Class P were modernized with outside valve gear and many with 84½ inch wheels were replaced with 80 inch wheels. The Class P-5 locomotives #340 to 349, were rebuilt in various ways, which included smaller drivers and different size cylinders. Superheaters, piston valves and Walschaert Valve gear were included in the changes. #344 was rebuilt with three cylinders, in May, 1912, the first Reading locomotive with a Schmidt superheater. She was rebuilt with two cylin-

ders in 1917.

Two other three-cylinder Atlantics, #300 and #303, were built new at Reading, in 1911 and 1909 respectively, under the direction of Howard D. Taylor, S. M. P. & R. E. and Edward O. Elliott, who worked upon the designs. The outside valves of all three cylinder locomotives were actuated by Walschaert Valve gear and the inside valve by the Joy gear. Both were controlled by a common reverse lever. A detailed account of these locomotives appeared in Paul T. Warner's article on the three cylinder locomotives in Bulletin #58. As experienced with so many other three cylinder engines used in high speed service, trouble developed in the crank axle and engines of this type were rebuilt with two cylinders in 1916 and 1917. They are credited by Paul T. Warner with being "among the most successful three cylinder locomotives ever used in this country and were outstanding examples of excellent design and fine workmanship."

The last of the Reading's Atlantics were Classified P-7-a, which, although built with the 4-4-4 wheel arrangement, were rebuilt as 4-4-2's. The 4-4-4 or Reading type, Class C-1-a, of which there were four built at Reading Shops in 1915, were numbered 110 to 113. They possessed many unique features. The principal weakness in their design was the use of four point suspension, instead of the customary three point. The use of the four-wheel trailing truck, in view of its successful performance and widespread adoption in later years, was perhaps the most interesting of the innovations employed. The riding qualities of this class were not satisfactory, and it was decided to convert the engines to Atlantics and to revert to the three point suspension. The wheel-operated cable reverse gear was replaced with the conventional power gear. Other changes made in the rebuilding, included reduction of the grate area from 108 square feet to 94.5 square feet, and the reduction of boiler pressure from 240 to 215 pounds. They were renumbered 350-353.

In reviewing the locomotives of the 4-4-2 wheel arrangement, mention should be made of an inspection engine, #100, of this type, which is most unusual for this class of service. Generally speaking, inspection engines had been rebuilt versions of obsolete 4-4-0's or built new with that wheel arrangement, but #100 was built at Reading in 1913. With

a tractive force of 19,300 pounds, it was capable of handling considerably greater tonnage than was customary for an inspection engine. It was withdrawn from service in April, 1929, due to a combination of circumstances which ended the careers of official engines on practically all railroads.

When it became apparent that the power required to handle the heavy passenger trains, especially the Baltimore and Ohio's running the Reading tracks between Philadelphia and Jersey City, was beyond the limitations of the Class P engines, the chosen successor was the Pacific type. The first on the Philadelphia and Reading, #105, was built at Reading in 1916, and designated class G-1a. This was the second type assigned to Class G, the first having been 0-10-0 switchers of which there were but two.

The Pacifics are all equipped with wide fireboxes and end cabs, and have 80 inch driving wheels, except five in Class G-1-s-b which have 74 inch wheels. As a whole, the Class G engines possess the traditional appearance of the more recent Reading passenger engines. Several have since been semi-streamlined (#108 and #178) and #117 and #118 fully streamlined for service on the "Crusader," between Philadelphia and New York.

That the record of this class has been most satisfactory is made evident by the fact that, after twenty-seven years, they have not been superseded and continue to meet the schedules of the Atlantics with trains of

greatly increased weight.

The 4-4-0 type was first used on the road in 1840. The first 4-6-0 was placed in service in 1847. From those years until well into this century these two types may well be called the backbone of Reading motive power, in spite of the fact that the ten-wheeler was replaced in "drag" freight service by the Consolidation type in 1880. The Gunboats, most of which became class F and the first of the class L engines, especially the latter, assumed the task of handling the fast freight schedules, for which there was a newly created demand. The ten-wheelers were progressively developed through the L-3, L-4, and L-5 classes, the L-5-a's being fast and powerful and excellently suited for the fast freight service for which they were designed. For the same service, Class L-7-a, were the heaviest and most powerful.

The time came when engines of Classes L-5 and L-7 were too light for fast freight service. The former, together with many other L engines, both lump coal and soft coal burners, were changed with new wide fireboxes, given superheaters, and Walschaert Valve gear. They were at the same time assigned to local passenger trains. The engines of class L-7-a were modernized and also placed in passenger service.

There are three other locomotives of the ten-wheel type that are of special interest. The first of these, #616, was rebuilt from #603, Class L-7-s-b, equipped with Caprotti valves, and her cab relocated back of the firebox and reclassified L-6-s-a. This was done in 1930 A Santa Fe type, #3010, was also equipped with Caprotti Valves, and if the use of high pressure steam and large cylinder continues as is indicated by present trends, the use of Caprotti or some other type of poppet valve will be desirable.

Probably the most prominent of the Reading ten-wheelers in recent years were #675 and #676, built at Reading in 1911. Both were center cab, wide firebox engines, the former having three cylinders, the latter having two. #675 was similar in many respects to the three cylinder Atlantics, especially in excellence of workmanship and appearance. In 1916, #675 was rebuilt with two cylinders. Both engines were used in passenger service and #675 made some remarkable speed runs on the Atlantic City Railroad.

Beginning in 1903 the Reading purchased ten locomotives for short haul suburban service. These were classified Q-1, 2-6-4T type, #376 to 385, and were chiefly used on the Norristown and Chestnut Hill

Branches until electrification in 1931.

Turning to the freight locomotives, that class is predominated by the Consolidation type, of which there have been approximately 800

since that type was introduced on the road in 1880.

The Vauclain compound "culm" burners of the early 1890's were followed by the soft coal burners just at the close of the 19th century. In 1905, however, the company reverted to the use of the wide firebox in ordering sixty-five locomotives, Class I-8-a, from Baldwin's, and in the other I-8 classes built at Reading, in the years 1910 to 1914. These were followed by Class I-9a, in 1918 and I-10-s-a in 1923 to 1926. In the latter group, a tractive power of 71,000 pounds is attained, as

compared with 19,390 pounds of the original Consolidations.

In a group as large as the Consolidation classes of the Reading, it was inevitable that there should have been numerous conversions, which was indeed the case. As related in discussing the 1871-1900 group locomotives, the lump coal Consolidations of 1888 were subsequently rebuilt with standard fireboxes only a short time later. The Compounds were changed to simple engines shortly after 1900. During the next few years, a considerable number of the I-1 classes were changed to soft coal burners, chiefly for switching service, in the I-3-a class. Others, retaining their Wootten fireboxes had sloping crown and roof sheets replaced with horizontal ones, a conversion which took place in many of the first Wootten boilers of all classes of engines.

A start was made to convert the I-7 engines with wide fireboxes. Only six were so changed. They were renumbered 1101 to 1103 and #1108 to 1110, although they retained their original numbers for a short time after the conversion. The first three were placed in Class I-6-a, the second time this class symbol has been used. The first engine assigned to this class has earlier been simplified and reclassified I-5-c. The second class I-6-a were almost duplicated by an order for fifteen

from Baldwins in 1907-#1111 to 1125, Class I-6-c.

Other I-7 engines were given cylinders 1 inch smaller in diameter and driving wheels were reduced to 55½ inches, probably for the sake of standardization. When so changed they were reclassified as follows:

I-7-a, b, c, and d became I-7-j, k, l, and m, respectively.

The I-8-a locomotives were, generally speaking, modernized with piston valve cylinders and Walschaert Valve gear, and some were equipped with superheaters. There were nine to which 55½ inch driving wheels were applied.

Two locomotives, #1616 and 1617, originally I-8-c, were built new with Jacobs-Shupert fireboxes, of patented construction, whose principal feature was the absence of radial staybolts. These fireboxes were also applied to #1466 to 1470 0-6-0 class B-9-b. The I-8's were subsequently replaced by the standard firebox and reclassified I-8-s-d. As originally built, the center cabs of these engines, (I-8) were set forward further than on other engines, due to the extreme length of the firebox, and the steam dome was thereby placed in the cab. The location of the cab was not altered when the standard fireboxes were applied.

At the present time (1944) #1581 alone continues as originally built in Class I-8-a, and all of the I-9 and I-10 classes are in their original

form.

There have been four other wheel arrangements used in heavy freight service, but not to the same extent as the Consolidations. Those types include the Mikado, Decapod, Santa Fe, and Mallets of the 2-8-8-2 type.

The first Reading Mikado, class M-1-a, #1700, was built at Reading Shops in 1912. There are fifty-seven in service; the M-1-s-a having 61½ inch drivers, and the former class M-1-s-b having 55½ inch drivers.

but all of these have been converted to M-1-s-a.

Little mention need be made of the Decapods, of Class J. There were only four and they were part of the order built originally for the Russian Government, during World War I. The collapse of the Czarist regime found the locomotive builders with a number of these engines completed and no responsible Russian Government to accept them. They were sold to various American railroads after the close of the United States Railroad Administration in 1920, the Reading buying four that they numbered 1126 to 1129. They were scrapped in March, 1935.

During the years immediately before the first World War, the Mallet Compound achieved its greatest popularity in this country. They presented apparently unlimited possibilities for sheer hauling capacity, but compared to their successors, the simple, four cylinder articulated locomotives, they were the experiment that disproved the theory that brute strength alone was required to operate freight trains.

They nevertheless, move considerable tonnage today.

The Mallets were essentially pushers on the Reading, and it was for this service that a majority of them were built. During the years 1917 to 1919, 31 Mallets of the 2-8-8-2 type were purchased from Baldwin's, and as far as Mallets are concerned, they represented the best practice of their day, although their appearance was not in keeping with

Reading standards.

Eleven of this class, #1800-1810, were rebuilt at the Reading Shops between 1927 and 1930, into the Santa Fe type, Class K-1-s-a, and were renumbered 3000-3010, but not in respective order. That this conversion was satisfactory is supported by the fact that ten additional locomotives, Class K-1-s-b, practically duplicates of the first eleven, were purchased from Baldwin's in 1931.

The remaining Mallets, 1811-1830, are being converted to single expansion, articulated locomotives at the Reading Shops. The first of the converted Mallets retained their original wheel arrangement and were classified N-1-s-d. In recent years the trailing truck was removed from the others as they were converted and from those already changed; the wheel arrangement thus becoming 2-8-8-0 and the class designation remaining the same.

It should be noted that the use of lump or prepared anthracite, and "culm," for fuel, declined during and after World War I. In the 1920's and 1930's a mixture of anthracite and bituminous was the rule for use in many locomotives, both passenger and freight. To date, during World War II, the percentage of anthracite has been reduced and there are a number of locomotives using 100% bituminous for fuel.

Inasmuch as this article essays to cover all of the motive power of the Reading, it must necessarily include the Diesel locomotives, which, although not in the category of the steam locomotive, are definitely an

important factor in the motive power equipment.

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Up to this time, (12-31-1944), Diesels have been used only for yard service on the Reading, but their performance in freight and passenger traffic on other roads has removed them from the class of "fads" or experiments, and their eventual use on the Reading for pulling freight

and passenger trains is very much of a possibility.

There are now 34 Diesels in service on the Reading. All are of the 0-4-4-0 type and their ratings vary from 300 to 1000 H. P. #98 and 99, received as #50 and 51, in June, 1926, and March, 1928, respectively, were the second and third engines of this variety placed in service in this country. From the roster will be seen that the products of a number of builders are being given trial, not unlike the early days of the steam locomotive, when the many builders were striving to prove the elaborate claims of the superiority of their own engines.

Mention should also be made of Budd oil-electric Car, No. 65, for short line passenger service, placed in operation in November, 1932. This "vehicle" had many improved features, the most notable of which

was steel flanged wheels with rubber treads.

On branch lines, where passenger service has dwindled to a point where it is not feasible to operate steam trains, the service was augmented by the use of oil-electric and gas-electric coaches, first placed in service in August, 1925. Fifteen cars of this type were purchased and placed in operation between 1925 and May, 1930, in addition to the Budd Car referred to above. These cars bore numbers 66 to 80, inclusive.

The Philadelphia suburban area, now almost entirely electrified, is served by 120 MU electric cars, each equipped with two 250 H. P. motors and drawing current of 12,000 volts through pantagraph trolleys. In making this installation to replace steam operated trains, there were some innovations adopted which were radical departures from existing electrical railroad operating practice, all of which have proved to be sound engineering principles and worthy of fuller description than space here permits. The equipment is, after thirteen years of service,

giving satisfaction and has shown itself to be motive power of the company's standard.

# Locomotives Built (new) at Reading Shops, Reading, Pa., From April 1, 1900 to December 31, 1944\*

1900 0	1913—18
1901— 0	1914-2
1902— 0	1915—4
1903— 0	1916— 6
1904— 0	1917—17
1905— 0	1918—13
1906—22	1919 0
1907—37	1920— 0
1908— 1	1921—10
1909—21	1922 0
1910—42	1923— 5
191125	

None Thereafter to date. Total—252 locomotives

<sup>\*</sup>Does not include six locomotives built for the C. R. R. of N. J.

## The 1900 Classification System

The classification in use today was adopted at the time of the renumbering, in April, 1900. Prior to that time, the system in use employed a letter denoting the general type of an engine, followed by a

number indicating the subdivision of that class.

The new system is basically the same in that a letter or letters are assigned to each type or wheel arrangement. This letter is followed by, first, a number indicating the subdivision of the general class, and second, by a letter which indicates a slight variation in the sub-classes. On locomotives equipped with superheaters, the letter "s" is inserted before the final letter of class designation. This phase of the system was not adopted immediately upon the first use of superheaters, hence a number of locomotives so equipped had the "s" added to their class designation at a later date.

The classes of the 1900 system were designated as follows:

A	0-4-0	K	4-4-0
$\mathbf{B}$	0-6-0	$\mathbf{L}$	4-6-0
C	4-4-0	M	2-4-2
D	4-4-0	N	2-6-0
E	0-8-0	0	none
$\mathbf{F}$	4-6-0	P	4-4-2
G	0-10-0	Q	2-6-4
$\mathbf{H}$	4-6-0	•	tank
I	2-8-0	OE	Diesel electrics
J	2-10-0		(assigned 1926)

In later years, engines in classes C, G, K, M and N were all disposed of, and these class letters were re-assigned as follows:

C 4-4-4 G 4-6-2 K 2-10-2 M 2-8-2 N 2-8-8-2 (and 2-8-8-0)

That the road's engines were readily adaptable to the classification was no mere co-incidence, but indicates that the advantages of standardization were recognized at an early date and had been practiced for many years prior to the adoption of the present classification system.

This system, as originally designed, has been sufficiently elastic to meet every condition, but has not been as rigidly adhered to as its originators may have planned. There have been several duplications of class designation, other than the re-assignment of class letters. For example, class L-6a has been used on two engines, bearing little similarity to each other beyond wheel arrangement. The same is true of the I-6-a and P-2-a classes. The second use of the class designation was not used, however, until some time after the first had been discontinued.

Another irregularity involved the old I-53 class, engines Nos. 933 and 934. These two locomotives were renumbered 886 and 887, class I-3-a, in April, 1900, and were shortly thereafter reclassified I-2-d, to make room for the first of the I-1 class that were rebuilt into the present

I-3-a class. This was a most peculiar inconsistency, for the other I-2's were all "camel-backs" and the rebuilt I-3-a engines had end cabs, similar to the I-2-d reclassified.

Another unusual class change was made with #1203, originally classified A-2-b. Until this locomotive was placed on the unclassified list, #1204 to 1233 were classified A-2-a, although there was a variation of weight and boiler pressure and builders within the group. These differences were taken care of first: by changing #1203 from Class A-2-b to unclassified; second, #1204 to 1215, built at Reading Shops, kept their original classification A-2-a; third, #1216 to 1230, built by Baldwin carrying 145 pounds steam pressure and slightly heavier, were classified A-2-b; fourth, #1231 to 1233, built by Baldwin in 1896, were given a new class—A-2-c. It is not known why this group was not properly classified in the first place, but this appears to be the way they were re-classified after the system of 1900 had gone into effect.

Originally #1252 to 1263 were classified B-1-a and #1264 B-1-b. Although there was no apparent difference in the boilers of #1252 to 1263, there were differences in weight chiefly because the frame near the cab and firebox was three feet shorter on #1254 to 1256, 1258, and 1263. After 1900 the following changes of classification were made within this group: #1264 reclassified B-1-b to B-2-d; #1254 to 1256, 1258, and 1263 reclassified from B-1-a to B-1-b, and the others keeping their original

B-1-a classification.

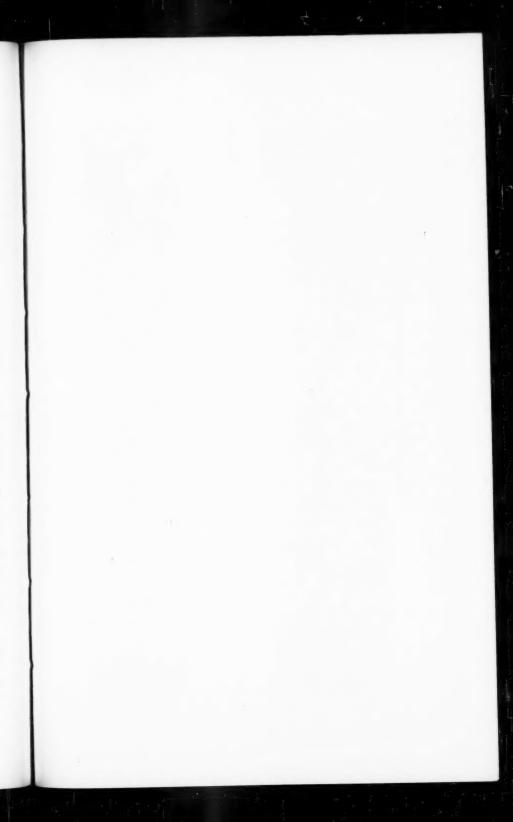
A more recent digression is seen in the assignment of class N-1-sd to the rebuilt articulated engines, from which the trailing wheels were removed when the engines were simplified. The trailers were not removed from the first engines converted, so that class N-1-sd covers both 2-8-8-0 and 2-8-8-2 types. It is possible that, at some future date, the trailers will be removed from the first of the N-1-sd engines and all of this class will be of one type. Even in this event, the present class N

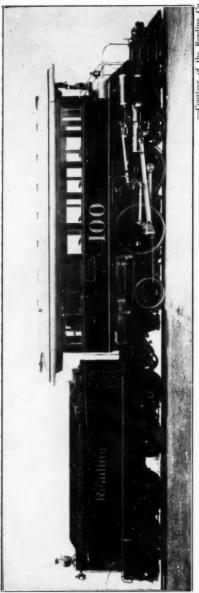
will cover two different wheel arrangements.

In referring to the classification, the difference between sub-divisions is not always readily apparent. The presence or absence of a combustion chamber would affect classification. The difference may be due to type of boiler, viz., wagon top or straight top; or to type of firebox roof and crown sheets, either horizontal or sloping. Furthermore, a very evident difference, the use of another type valve gear, does not always cause a change in classification. In later years, cylinders and driving wheels of dimensions differing from those of a class standard have been applied to some engines in a class group, without any change of class. Such procedure is no doubt perfectly satisfactory to the company, but it does not seem to be consistent with the intent of those who devised such a simple and efficient classification schedule.

There will appear variations between this record and official records, unless the latter are of a date contemporary with this data, which, insofar as possible, shows the locomotive data as they were at the time of classification in 1900, or, in the case of engines built or rebuilt thereafter, at the time of building or re-building, as the case may be. A reduction in boiler pressure, usually due to an engine's advancing age,

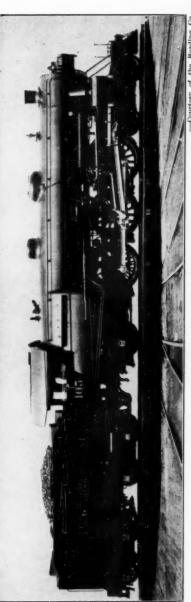
would naturally be reflected in the tractive power rating.





P. & R. #100-Readings Shops, 1913.





P. & R. #105, G-lsa-Reading Shops, 1916.

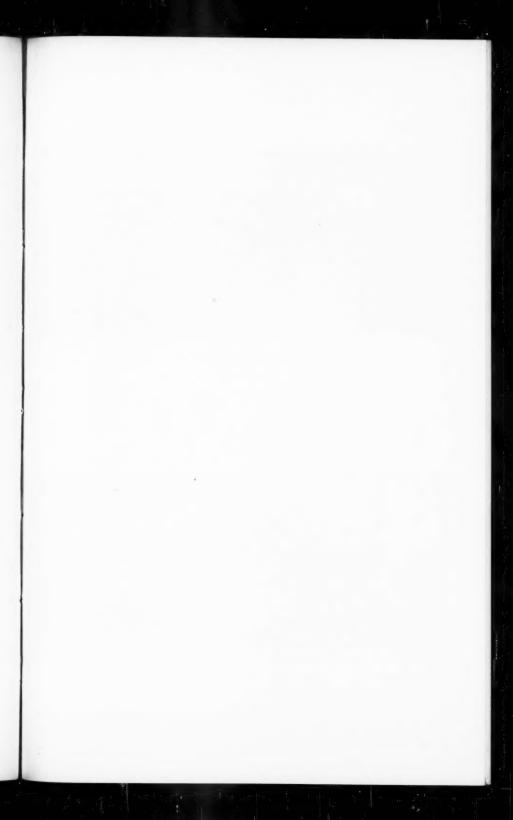
Locomotives—1900-1944

So far as possible, the locomotives will be grouped according to class, replacements of the original numbers will follow in their own

		lacemen	ts of the	origin	ial nun	ibers v	will foll	ow in	the	er own
grou					4-4-0					
	C-C-C-Un	2a 15x2 5a 17x2 6a 17x2 oct. 18x2	24" 58" 1 22" 61½" 1 22" 68½" 1 24" 57" 1	20# 446 20# 446 20# 446 30# ?		00 9495 00 1054 00 9680 ?	#			
2 3	1001 1010 1003	C-la B C-2a B	aldwin aldwin aldwin	3675 3239 3507	12-1874 4-1873 11-1873	2-	1902 1902			
4	1008 1009		& R & R		6-1875		1910	0 0		1002
3 4 5 6 7	1009		& R		3-1876 7-1877		Poulterer Poulterer			1902 1902
7	1004	Uncl B	aldwin	7837 18x2	3-1886 2" 61½		D-li P &	R	6-	1903
	D-3	3k 18½x	22" 611/2"	160#	2 01/2	73850	108550	16	650#	
	D-	4g 18½x		160#		69000	104700		950#	
	D-			160#		73000	107000		260#	
	D-6		22" 78" 22" 78"	175# 200#		84700	128200		502# 145#	
	D-9			185#		88300	135400		142# 560#	
	D-9		22" 74"	200#		96050	142475		290#	
	D-		22" 681/2"	160#		73000	107000		260#	
-	1001			All w	ide fireb	OX	P 1000 F			11/11/1
7	1004	D-3k	P&R*	0077	10-1906	Sc.	7-1920 F	& R	#7 D-	li(W)re.
8	1011 1012	D-4g(W)	) Baldwin Baldwin	9977 9978	5-1889 5-1889		1914 1914			
10	1013	D-4g	Baldwin	9980	5-1889		1914			
11	1014	D-4g	Baldwin	9981	5-1889		1915			
12	1030	D-4g	Baldwin	14006	5-1894		1915			
13	1031	D-4g	Baldwin	14007	5-1894		1914			
14	1032	D-4g	Baldwin	14008	5-1894		1923			
15 16	1033	D-4g	Baldwin ) Baldwin	14009	5-1894 5-1889	P&R*	1915 1903 D	-9b	1	
10	1015	D-20(W	) Daldwin	9986	7-1009	P&R*			c. 8-	1923
17	1016	D-5b	Baldwin	9987	5-1889	P&R*				12-1912
18	1017	D-5b	Baldwin	9997	5-1889	P&R*	1903 D	-9b,c		
19	1018	D-5b	Baldwin	10031	6-1889	P&R*		-9d S -9b	c. 9-	1928
19	1010	D-70	Daidwill	10071	0-1009	P&R*			c. 11-	1927
20	1019	D-5b	Baldwin	10001	5-1889	P&R*	4-1903 5-1913	D-9b D-9e	6-	2 1020
21	1020	D-5b	Baldwin	10032	6-1889	P&R*	3-1903	D-96 D-9b	Sc.	2-1928
						P&R*	4-1913	D-9e	Sc.	5-1928
22	1034	D-5c(W)	) Baldwin	14013	5-1894	P&R*	5-1903 2-1914	D-9b D-9e	Sc.	5-1928
23	1035	D-5c	Baldwin	14016	5-1894	P&R*	3	D-9b		
						P&R*	3-1914	D-9e	Sc.	8-1927
				_	4-4-2					
	P-1	a 13&22	2x26" . 841/4"	200#	1-1-2	81200	153800	14	465#	
	P-1	b 13&22	2x26" 841/4"	* 200#		81200	153800		465#	
	P-1		)x26" 841/4"	200#		?	?			
	P-i	e 20	)x26" 841/4"			93200	166600	209	985#	
24	1026	P-la Ba	aldwin	All w 14739	ride fireb 3-1896	ox P&R*	6-1903	P-1b	Sc.	3-1928
25	1027		aldwin	14740	3-1896	P&R	0-1903	P-1d	Sc.	3-1928
						P&R	4-1904	P-le	Sc.	4-1927
26	1028		aldwin	15878	4-1898	P&R	5-1904	P-le	Sc.	11-1928
27 29	1029		aldwin	15879	4-1898	P&R	4-1903	Renu	mbere	ed
29		P-le			04	Sc. 2	2-1927			

-81-

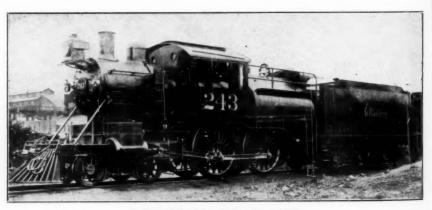
```
4-6-0
                                   115#
115#
                                                   60400
        F-la
                   18x22"
                            48"
                                                              84000
                                                                        14515#
        F-Ic
                   18x22"
                            48"
                                                                        14515#
                                                   57100
                                                              83700
        F-2d
                   18x22"
                            48"
                                   145#
                                                   71000
                                                              91000
                                                                        18300#
       H-la
                   18x24"
                           54"
                                   120#
                                                  63800
                                                             89000
                                                                       14690#
 28
     1023 F-1a
1025 F-2d
                   P&R*
                                            1866
                                                   P&R* to F-1c
                                                                            Sc.
                                                                                  5-1910
 29
                   P&R
                                                   Renumbered
                                          4-1903
                                                   Sc.
 34
                                                         5-1916
 30
     1024
           F-2d
F-2d
                   P&R
                                          3-1899
                                                  Sc.
                                                       11-1911
 31
     1021
                   P&R
                                          4-1898
                                                  Sc.
                                                         1-1915
                   P&R
 32
     1022
            H-la
                                          8-1874
                                                   Sc.
                                                         2-1915
                                         0 - 4 - 0
                            14x22"
                                            145#
                                    44"
                                                  60000
                                                             60000
                                                                       12080#
        A-2c
     1002 A-2c
                                                  Sold 9-1914, resold 5-1921 to Alum-
 33
                    Baldwin
                                 14916
                                          6-1896
                                                    inum Co. of America.
        Nos. 35-80 Vacant
 81
     1088
            Uncl.
                                            1862
                                                  4-4-0
                                                            17x22"
                                                                    56"
                                                                            65600
                                                   Sc.
                                                       12-1906
                                                   4-4-0
 82
     1092 C-5a
                      P&R
                                          6-1873
                                                           17x22"
                                                                    611/2"
                                                                            73300
                                                        9-1902
                                                  Sc.
 83
     1089 F-1a
                      P&R
                                                  4-6-0
                                                            18x22"
                                                                    48"
                                                                            84000
                                                   Sold 4-1902 Poulterer & Co.
                                                           18x22"
 84
     1090
            F-4b(W) P&R*
                                                   4-6-0
                                                                   48"
                                                                           103000
                                                  Sc. 5-1916
                                          5-1874
                                                            18x24" 54"
 85
     1096
           H-la
                      P&R
                                                  4-6-0
                                                                            89000
                                                  Sc. 3-1911
86
     1087
            H-la
                      P&R
                                          1-1876
                                                  4-6-0 Sc. 2-1911
87
            H-4a(W) P&R*
                                                         18x24" 54" 104300 Sc. 12-1920
     1093
                                                   4-6-0
                                                         16x18" 43"
 88
     1095
            B-2a(W) P&R
                                                  0-6-0
                                                                      61600 Sold E. H.
                                                   Wilson & Co. 5-1902
 89
     1106
                                         10-1883
                                                         18x24" 62"
                                                                      90000 Sc.
            Uncl
                      Rogers
                                                   4-4-0
                                                         18x24" 62"
90
                                          5-1884
                                                  4-4-0
                                                                       90000 Sc. 11-1905
     1107
            Uncl
                      Rogers
 91
                      Baldwin
                                            1889
                                                  4-4-0
                                                         18x24" 62"
                                                                       99000
                                                                                  5-1914
     1108
            Uncl
 92
     C&F2 Uncl
                                                  4-4-0
                                                         16x22" 60"
                                                                                 8-1901
                                          6-1881
                                                         16x22" 48"
93
     C&F4 Uncl
                      Baldwin
                                                  4-6-0
                                                                       79000
                                                                                 11-1905
 94
     C&F6 Uncl
                                  1693
                                          1-1868
                                                         16x22" 48"
                                                                       53000
                                                                                 12-1902
                      Baldwin
                                                  4-6-0
 94
     345 F-2a
                      P&R*
                                            1889
                                                  4-6-0
                                                         18x22" 48"
                                                                       91300
                                                                                 10-1910
                                                         17x22" 50"
                      Baldwin*
 95
     C&F5 Uncl
                                          7-1890
                                                  4-6-0
                                                                      88000
                                                                                  4-1910
96
                                  3170
                                                         17x22"
     C&FI Uncl
                      Baldwin
                                          3-1873
                                                  4-6-0
                                                                  49"
                                                                       83000#
                                                                                 3-1905
       97-99 Vacant
100
            Uncl
                      Baldwin
                                 21341
                                         12-1902
                                                  4-4-0
                                                         17x20" 60" 100200 Re.
                                                                                 12-1912
100
     (W) Uncl
                      P&R
                                          6-1913
                                                  4-4-2
                                                         18x24" 681/2"160700
                                                                             Sc. 4-1929
                                                  4-4-0
2-2-2
4-4-0
                                                         14x20" 60"
                                                                      83650 Sc.
                                                                                 9-1929
101
        1 Uncl
                      Baldwin
                                 15791
                                          3-1898
102
                      P&R
                                          7-1867
                                                          8x8"
                                                                45"
                                                                      21375
                                                                                11-1905
     Transit
102
                      Baldwin
                                 21341
                                         12-1902
                                                         17x20" 60" 100200
                                                                                 3-1925
                                                         8x8" 45" 21375
15x20" 61½" 75800
103
     Ariel
                      P&R
                                          1-1872
                                                  2-2-2
                                                                                 4-1902
103
      328
                     P&R*
                                         10-1903 4-4-0
                                                                                 8-1912
             The following replaced the above locomotive numbers:
              OE- 1
                        4-4
                                16x12"
                                               38"
                                                       130000
                                                                  36000#
                                10x12"
              OE-2
                        44
                                               38"
                                                       133900
                                                                  36000#
              OE-3
                                 8x10"
                                               40"
                        44
                                                       205580
                                                                  51395#
                                                       233500
                                12½x13"
                                               40"
              OE- 4
                        4-4
                                                                  58375#
              OE-5
                                               40"
                                                       200040
                                 8½x10"
                                                                  60010#
                                               40"
              OE- 6
                        4-4
                                                       218200
              OE- 7
                        4-4
                                121/2×151/2"
                                               40"
                                                       194700
                                                                  60000#
              OE- 8
                                12½x13"
                                                       194000
                        4-4
                                               40"
              OE-9
                        4-4
                                 81/2×18"
                                               40"
                                                       245170
                                                                  61293#
              OE-10
                                123/4x151/2"
                                               40"
                        4-4
                                                       242150
                                                                  60538#
```





-Courtesy of the Reading Co.

Reading #178-G-2sa, Baldwin, 1926.



Reading #243-D-8b, Reading Shops, 1907.

Nos. 1-9 vacant. Class OE-3 10 E. M. C. 1937 11 E. M. C. 1937 12 E. M. C. 1937 13 E. M. C. 1937 14 E. M. C. 1937 15 E. M. C. 1937 Class OE-5 16 E. M. C. 1939 17 E. M. C. 1939 18 E. M. C. 1935 Nos. 25-34 Vacant 19 E. M. C. 1939 20 E. M. C. 1939 21 E. M. C. 1940 22 E. M. C. 23 E. M. C. 24 E. M. C. 1940 1941 35 OE-6 St. Louis Car Co. 1939 Renumbered 97 36 OE-7 Baldwin 1939 Renumbered 60 37-39 Vacant 40 OE-4 A. L. Co. 69056 1937 41 OE-4 A. L. Co. 69057 1937 42-49 Vacant 50 OE-1 50 OE-8 51 OE-2 A. L. Co. 66682 1926 Renumbered 98—8-1940 67107 1928 Renumbered 99—7-1940 51 OE-8 1940 69206 69207 69504 69505 52 OE-8 53 OE-8 1940 1941 OE-8 A. L. Co. 1941 Class OE-10 55-59 Baldwin Class OE-7 60 Formerly #36 1930 62390 66 Baldwin 64193 67 Baldwin 64194 68 Baldwin 64390 61 Baldwin 1941 62 Baldwin 62400 1940 1941 62401 1940 1942 63 Baldwin 64390 64 Baldwin 65 Baldwin 64190 1941 69 Baldwin 64391 1942 64192 1941 70 Baldwin 64399 1942 Class OE-10 81 Baldwin 82 Baldwin 83 Baldwin 84 Baldwin 85 Baldwin 86 Baldwin 87 Baldwin 1943 71 Baldwin 72 Baldwin 73 Baldwin 67731 1943 64431 1943 1942 \_\_ T943 67722 1943 74 Baldwin 75 Baldwin 67723 1943 1943 70011 1943 67730 1943 76 1943 1943 Baldwin \_\_\_ 77 1943 1943 Baldwin 88 Baldwin 78 Baldwin 1943 1943 89 Baldwin 79 Baldwin 1943 1943 80 Baldwin 1943 Class OE-9 90 E. M. C. — 91 E. M. C. — Nos. 93-96 Vacant 97 Formerly 35, 98 Formerly 50, 99 Formerly 51. Nos. 104-109 Vacant 91 E. M. C. — 92 E. M. C. — 4-4-0 C-2a 58" 120# 44600 15x24" 61000 9495# 120# 38000 115# 49000 120# 44000 C-3a 15x20" 61" 68000 60" 16x24" C-4a C-5a 73000 17x22" 611/2" 10595 73300 C-6a C-7a C-7a #144 17x22" 681/2" 120# 44600 75400 9680

Co.

120#

120#

60000

60000

88000

88000

10895

10895

61"

61"

17x22"

17x24"

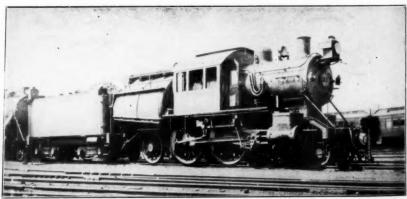
```
110
        209
              Uncl
                     P&R*
                                               3-1869
                                                        15x22"
                                                                 56"
                                                                       54900
                                                                                         5-1901
                                                                                   Sc.
                     Baldwin
 111
       1076
              Uncl
                                      3639
                                               9-1874
                                                        16x24"
                                                                 58"
                                                                       71000
                                                                                        10-1902
              C-2a
C-2a
C-2a
 112
        471
                                                                                         4-1904
                     Baldwin
                                      3219
                                               4-1873
 113
        476
                     Baldwin
                                      3642
                                               9-1874
                                                                                         9-1902
 114
        477
                     Baldwin
                                      3643
                                               9-1874
                                                                                         1-1903
 115
        323
              C-3a
                     P&R
                                               6-1871
                                                                                         7-1901
              C-3a
C-3a
        328
 116
                     P&R
                                               8-1871
                                                                                 103.
                                                        Reb. & Renumbered
                                                                                        10-1903
        330
 117
                     P&R
                                               9-1871
                                                                                  Sc.
                                                                                         2-1903
 118
        494
              Uncl
                     Baldwin
                                      3680
                                              4-1876
                                                       17x22" 61"
                                                                     Sold-Poulterer & Co.
             C-4a
C-5a
C-5a
C-5a
C-5a
C-5a
C-5a
 119
        462
                     Baldwin
                                      2148
                                               5-1870
                                                       Disposition like #118
 120
121
        469
                     Baldwin
                                      2858
                                               7-1872
                                                                                  Sc.
                                                                                         4-1903
        191
                                               5-1867
                     P&R
                                                                                         3-1905
 122
        203
                     P&R
                                             11-1868
                                                                                         7-1902
 123
        370
                     P&R
                                              4-1876
                                                                                         3-1905
 124
        312
                                              9-1872
                                                                                Sold
                                                                                         9-1905
 125
        307
                     P&R
                                              4-1873
                                                                                         7-1906
             C-5a
C-5a
C-5a
 126
        319
                     P&R
                                              4-1873
                                                                                        11-1906
 127
        389
                     P&R
                                              8-1873
                                                       Sold-Poulterer & Co.
                                                                                         4-1902
                     P&R
 128
        396
                                              4-1874
                                                                                  Sc.
                                                                                         5-1911
             C-5a
C-5a
C-5a
C-5a
 129
        399
                     P&R
                                              7-1874
                                                                                         7-1902
 130
        351
                     P&R
                                              5-1875
                                                       Disposition like #127
 131
        350
                     P&R
                                              4-1876
5-1876
                                                                                  Sc.
                                                                                         4-1905
 132
        314
                     P&R
                                                                                        10-1902
             C-5a
C-5a
C-5a
                     P&R
 133
        315
                                              5-1876
                                                                                        4-1905
 134
        400
                     P&R
                                              6-1876
                                                       Disposition like #127
                     P&R
 135
                                              3-1878
        410
                                                                                  Sc.
                                                                                        10-1910
 136
                     P&R
        308
             C-6a
                                              6-1874
                                                                                        11-1906
             C-6a
C-6a
C-6a
 137
        354
                     P&R
                                             10-1875
                                                                                        9-1911
 138
        355
                     P&R
                                             11-1875
                                                                                           1902
 139
        304
                     P&R
                                              2-1876
                                                                                       10-1911
 140
        23
                     P&R
             C-6a
                                              8-1876
                                                                                         4-1905
 141
             C-6a
C-7a
C-7a
C-7a
        409
                                              9-1876
                     P&R
                                                                                        9-1911
 142
       479
                                      3790
                     Baldwin
                                             11-1875
                                                       Sold-D. Gring
                                                                                        6-1902
143
       488
                                      3847
                                              3-1876
                     Baldwin
                                                                                  Sc.
                                                                                         4-1911
       493
144
                     Baldwin
                                      3975
                                              8-1876
                                                                                         1-1903
145
      1200
             Uncl
                     Rogers
                                      4112
                                              2-1889
                                                       17x24"
                                                                62" 80000
                                                                                  Sc.
                                                                                       11-1905
      D-la
                                       611/2"
                                                125#
                            181/2 x22"
                                                       56000
                                                                 86000
                                                                            13010#
                                       61½"
61½"
      D-1b
                            181/2x22"
                                                130#
                                                       62400
                                                                 93600
                                                                            13530#
      D-Id
                            181/2x22"
                                                130#
                                                       66000
                                                                 97800
                                                                            13530#
      D-le
                            181/2x22"
                                       611/2"
                                                130#
                                                                 99500
                                                      65800
                                                                            13530#
                            181/2x22"
      D-3d
                                       611/2"
                                                160#
                                                      66000
                                                                 97800
                                                                            18730#
                                       611/2"
      D-3e
                            181/2x22"
                                                160#
                                                      66000
                                                                 97800
                                                                            16650#
      D-3h
                            18½x22"
                                                180#
                                                      84000
                                                                122500
                                                                            13530#
      D-3i
                           181/2×22"
                                       611/3"
                                                                106800
                                                160#
                                                      71050
                                                                            13530#
                                       611/2"
      D-3k
                           181/2x22"
                                                160#
                                                      73850
                                                                108550
                                                                            16650
                                      All wide firebox
146
       118
             D-la
                    P&R
                                            11-1879
                                                      P&R*
                                                                9-1904
                                                                         D-3h
                                                                                  Sc.
                                                                                       12-1927
147
       216
             D-1b
                    P&R
                                             1-1882
                                                                                        1-1907
148
       229
             D-le
                    Baldwin
                                     6752
                                             5-1883
                                                       P&R*
                                                                                        5-1925
                                                               10-1903
                                                                          D-3h
                                     6789
149
        44
             D-le
                    Baldwin
                                             6-1883
                                                               8-1901
12-1903
                                                      P&R*
                                                                         D-3i
D-3h
                                                                                        1-1921
150
        58
             D-le
                    Baldwin
                                     6758
                                             5-1883
                                                      P&R*
                                                                                        1-7926
151
        69
                                             6-1883
5-1883
                                                      P&R*
             D-le
                    Baldwin
                                     6805
                                                               10-1906
                                                                         D-3k
                                                                                        5-1922
152
        76
             D-le
                    Baldwin
                                     6766
                                                                2-1904
                                                                         D-3h
                                                                                        8-1929
                                                      P&R*
153
       142
             D-le
                    Baldwin
                                     6786
                                             6-1883
                                                                                        2-1907
154
       175
             D-le
                    Baldwin
                                     6784
                                             5-1883
                                                                                        8-1909
155
      194
             D-1d
                    Baldwin
                                     6843
                                             7-1883
                                                      P&R*
                                                               10-1903
                                                                         D-3e
                                                                                        2-1916
156
       449
             D-1d
                    P&R
                                             4-1884
                                                                                        9-1909
157
       100
             D-1d
                    P&R
                                             5-1884
                                                                                       12-1928
                                                      P&R*
                                                                4-1900
                                                                         D-3d
158
      452
            D-1d
                    P&R
                                             5-1884
                                                                                       10-1910
```

12423133 .2 352556212



-Courtesy of C. E. Fisher,

P. & R. #302-P-6b-Reading Shops, 1911, at Camden, N. J.

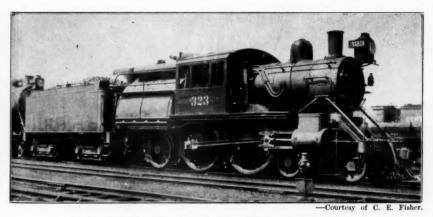


-Courtesy of C. E. Fisher.

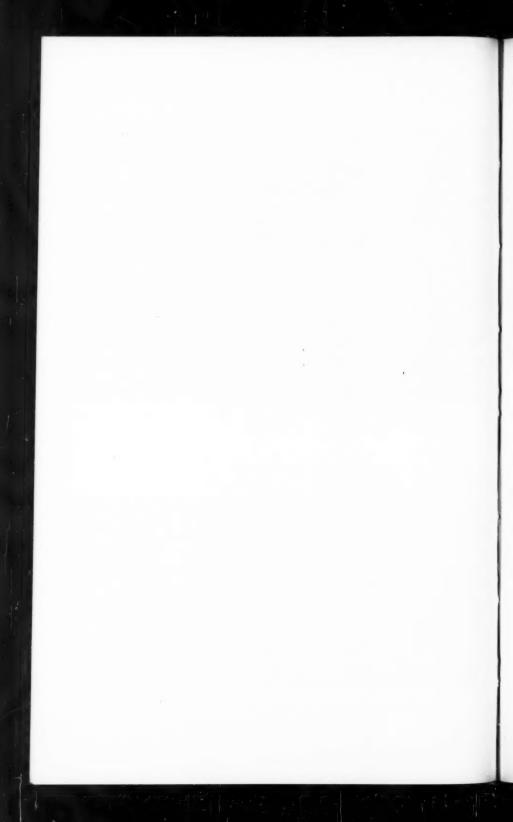
P. & R. #310-P-2b, reb. Reading Shops 1914, at Camden, N. J.



P. & R. #316, 4-2-2, Baldwin, 1895, at Communipaw, N. J., 1902. This locomotive on 2-7-1902 ran from Philadelphia to New York, 90 miles in 84.5 minutes, with probably three cars.



P. & R. #323-P-3c, reb. Reading Shops, 1903, at Camden, N. J.



159 160 161 162	139 144 94 95	D-ld D-ld D-ld D-ld	P&R P&R P&R P&R			6-1884 6-1884 7-1884 7-1884					2-1907 11-1905 11-1905 8-1909
	D-2a D-2b D-2c D-2d D-3h D-4d D-4h			18½x22" 18½x22" 18½x22" 18½x22" 18½x22" 18½x22" 18½x22"	68½" 68½" 68½" 68½" 61½" 68½" 68½"	130# 130# 130# 130# 180# 160#	62500 62500 62500 62500 84000 67000 81000	95000 95000 95000 95000 122500 100000 118000	1214 1214 1214 1214 1873 1495	45# 45# 45# 30# 50#	
163 164 165 166 167 168 169 170 171 172 173	309 349 219 226 222 238 442 453 356 359 364 357	D-2a D-2a,1 D-2b D-2c D-2c D-2c D-2c D-2c D-2c D-2c D-2c	P&R P&R P&R P&R P&R P&R P&R P&R P&R P&R		1	3-1881 7-1881 0-1881 1-1881 4-1882 6-1882 8-1882 1-1899 2-1882 2-1883 4-1883 3-1884	P&R* P&R* P&R* P&R* P&R* P&R* P&R*	10-1904 5-1904 3-1904 7-1904 8-1904 11-1903	D-3h D-3h D-3h D-3h D-3h D-3h D-4d	Sc.	5-1941 5-1928 5-1930 6-1927 2-1922 5-1941 2-1907 1-1921 3-1907 3-1907 8-1914 10-1927
	D-3c( D-3d( D-3e( D-3f(	(W) W) W)		18½x22" 18½x22" 18½x22" 18½x22"	61½" 61½" 61½" 61½"	160# 160# 160# 160#	62000 66000 66000 68500	93000 97000 97000 101000	1665 1665 1665	0# 0# 0#	
175 176 177 178 179 180 181 182 183 184 185	113 224 348 220 361 218 49 57 101 196 143	D-3f D-3c D-3c D-3c D-3e D-3e D-3e D-3e D-3e D-3e	P&R* P&R* P&R* P&R* P&R* P&R* P&R* P&R*		1	3-1898 3-1899 7-1899 1-1898 5-1898 3-1899 3-1898 3-1899 1-1899 7-1899	P&R*	6-1903	D-3e	Sc.	1-1923 8-1920 10-1912 5-1924 12-1923 4-1918 4-1923 3-1923 10-1914 9-1920 6-1924
186 187 188 189 190 191 192 193 194 195	190 28 448 140 440 894 895 896 897 898	D-3e D-2d D-3d D-3d D-3e D-3e D-3e D-3e D-3e	P&R* P&R* P&R* P&R* P&R* P&R* P&R* P&R*			I-1899 I-1884 8-1898 5-1899 	P&R*	3-1901	D-4d		2-1916 5-1923 12-1923 6-1923 2-1915 9-1916 6-1917 6-1917 1-1923 12-1923
	D-4b( D-4e( D-4f( D-4g(	W) W)		18½x22" 18½x22" 18½x22" 18½x22"	68½" 68½" 68½" 68½"	160# 160# 160# 160#	67000 67000 68700 69000	100000 100000 104500 104700	1495 1495 1495 1495	0# 0#	

196 197	373 358	D-4b,c P&R* D-4b,c P&R*	6-1897 8-1898	P&R*	 D-4e	Sc.	5-1923	
198	372	D-4b,c P&R*	4-1898	P&R*	D 4-		12-1914 5-1927	
199	366	D-4d P&R*	2-1898	Lau.	 D-4e	Sc.	12-1923	
200	443	D-4d P&R*	5-1898			SC.	2-1923	
201	134	D-4f P&R	7-1886				12-1915	
202	206	D-4f P&R	7-1886				2-1921	
203	439	D-4f P&R	8-1886				3-1918	
204	892	D-4f P&R	8-1886				11-1916	
205	893	D-4g P&R	9-1886				2-1916	

As the above numbers became vacant, the following engines were assigned these numbers.

### 444

C-1a(W) 23½x26" 80" 240# 133000 230800 3	6615#
--	-------

110	P&R	5-1915	Re. 351	112	P&R	7-1915	Re. 350
111	P&R	6-1915	352	113	P&R	7-1915	353

These locomotives were not a success and within a year were rebuilt to locomotives of the 4-4-2 type, reclassified as P-7sa. The Pacific type engines that carry the above numbers were all new engines and were in no ways related to the above

### 4-6-2

	G-lsa ( G-lsas(		25x28" 25x28"	80" 80"	200# 220#	176925 198520	273600 206340	37185# 40900#	(streamli	ned)
105 106 107 108 109 110 111 112 113 114 115 116 117 118	G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsa G-lsas G-lsas	P&R P&R P&R P&R P&R P&R P&R P&R P&R P&R		7-1 8-1 8-1 8-1 5-1 6-1 7-1 7-1 6-1 7-1	917	120 121 122 123 124 125 126 127 128 129 130 131 132	G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa G-Isa	P&R	n 57757 n 57758 n 57759	6-1921 6-1921 7-1921 7-1923 5-1923 6-1923 6-1923 4-1924 4-1924 4-1924 4-1924

The G-Isas engines were streamlined 11-1937 and #108 was streamlined 12-1934 but the classification was unchanged. Although all bear the same general classification, Nos. 108, and 125-134 carry 220# pressure and Nos. 120-124 carry 210# pressure with 39045# T. E.

G-lsb(W)	25x28"	74"	220#	177210	288120	44200#
G-2sa(W)						

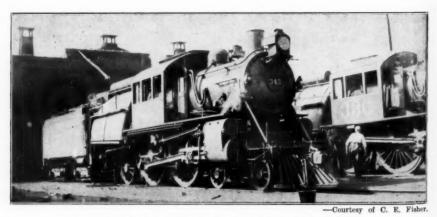
175	G-2sa	Baldwin	59226	5-1926	200	G-1sb	Baldwin	58264	3-1925
176	G-2sa	Baldwin	59254	5-1926	201	G-1sb	Baldwin	58265	3-1925
177	G-2sa	Baldwin	59255	5-1926	202	G-1sb	Baldwin	58266	3-1925
178	G-2sa	Baldwin	59256	5-1926	203	G-1sb	Baldwin	58291	3-1925
170	C-252	Raldwin	59257	5-1926	204	G-1sh	Baldwin	58292	3-1925

No. 178 was semi-streamlined 9-1936, classification unchanged.

0-'y /e



Reading #334-P-4f, reb. Reading Shops, 1914, at Camden, N. J.



Reading #343-P-5se, reb. Reading Shops, 1916, at Camden, N. J.

5-1888

9252

Baldwin

Baldwin

968

969

K-la

244

```
245
                                          5-1888
           K-la
                       Baldwin
                                  9258
246
       964
            K-Ic
                                            1888
                       Baldwin*
247
      966
            K-lc
                       Baldwin*
                                            1888
                                                                                  2-1918
248
       963
            D-8a
                       P&R*
                                          6-1899
                                                                                 11-1933
249
       961
            D-8a
                       P&R*
                                          6-1899
                                                                                 11-1928
      970
                       P&R*
250
            K-Ib
251
       385
            D-10b
                       P&R*
                                          5-1904
                                                  P&R* 6-
                                                                   D-10b
                                                                                  7-1933
                       P&R*
252
      378
                                                  P&R* 8-1916
            D-10a
                                          3-1904
                                                                   D-10b
                                                                                  5-1930
      The following replaced the above numbers:
242
            D-8a
                      P&R*
                                          8-1903
                                                                                  5-1922
243
            D-8b
                       P&R
                                          6-1907
                                                                                 10-1933
244
                                                                                  5-1933
            D-8b
                       P&R
                                          6-1907
245
            D-8b
                       P&R
                                          6-1907
                                                                                 11-1933
246
            D-8b
                       P&R
                                          6-1907
                                                                                  4-1932
250
            D-8b
                      P&R
                                          6-1907
                                                                                 11-1934
                                  4-4-0 Unclassified
232
     1202
                                          5-1889
                                                  18x24" 62"
                                                                96200
            Rogers
                                  4146
                                                                                    1907
236
     1206
            Rogers
                                  4163
                                          7-1889
                                                  18x24"
                                                           62"
                                                                 96200
                                                                                 12-1925
                                                           62"
251
                                                  17x24"
     W&N 17
                Baldwin
                                  1659
                                          9-1867
                                                                 76000
                                                                                 8-1906
                                                   17x24"
     W&N 21
W&N 22
252
                 Baldwin
                                                           62"
                                                                 76000
                                                                                  4-1905
                                                           62"
253
                                                   17x24"
                 Baldwin
                                                                 76000
                                                                                  4-1911
     W&N 23
254
                                                   17x24"
                                                           62"
                 Baldwin
                                                                 76000
                                                                                 11-1905
                                                           62"
     W&N 25
W&N 26
                                                  15x24"
255
                                  2164
                                          6-1870
                                                                67000
                                                                                  3-1905
                 Baldwin
                                                           62"
256
                 Baldwin
                                  2107
                                          3-1870
                                                   15x24"
                                                                 67000
                                                                                  1-1903
                                                   17x24"
                                                           62"
257
     W&N 27
                 Baldwin
                                                                                  7-1906
                                                                 76000
258
                                  9324
                                                  17x24"
                                                           62"
     W&N 16
                                          6-1888
                Baldwin
                                                                83000
                                                                                 10-1910
259
     W&N 18
                                  9532
                                                  17x24"
                                                           62"
                                                                                 10-1914
                 Baldwin
                                         10-1888
                                                                83000
260
     W&N 24
                                  2108
                                                  15x24"
                                                           62"
                 Baldwin
                                          3-1870
                                                                67000
                                                                                  5-1900
                                         4-4-0
                         681/2"
                                 200# 89000 135000 24080# All Baldwin
     D-5f(W) 21x22"
                           Sc.
             4-1901
                                                                           Sc.
260
     18894
                                 10-1933
                                                270
                                                     20580
                                                             6-1902
                                                                                 8-1933
261
     18895
              4-1901
                           Sc.
                                               271
                                 10-1933
                                                     20581
                                                              6-1902
                                                                           Sc.
                                                                                 8-1928
              4-1901
                           Sc.
                                  1-1936
                                                                           Sc.
                                                                                11-1933
262
     18902
                                                272
                                                     20588
                                                              6-1902
                           Sc.
Sc.
263
                                 12-1932
7-1928
                                               273
                                                              6-1902
     18903
              4-1901
                                                     20589
                                                                           Sc.
                                                                                  3-1929
     18904
                                                             6-1902
                                                                           Sc.
                                                                                  9-1933
264
              4-1901
                                               274
                                                     20590
265
     18905
              4-1901
                           Sc.
                                11-1933
                                                275
                                                     20644
                                                              7-1902
                                                                           Sc.
                                                                                11-1933
266
     18921
              4-1901
                           Sc.
                                 6-1928
                                                276
                                                     20645
                                                              7-1902
                                                                           Sc.
                                                                                 8-1933
     18922
                                               277
267
              4-1901
                           Sc.
                                 11-1933
                                                     20646
                                                              7-1902
                                                                           Sc.
                                                                                  1-1928
                                11-1933
                                               278
                                                             7-1902
268
     18923
              4-1901
                           Sc.
                                                     20683
                                                                                 2-1922
                                               279
             4-1901
                                                     20687
                                                              7-1902
                                                                                 9-1928
269
     18924
                                                                           Sc.
     D-5h(W) 21x22**
                          683
                                 200# 99480 144100 24080# All Baldwin
                                                                                built
                           Sc.
                                                                           Sc.
                                                                                 7-1933
280
     27674
              3-1906
                                10-1940.
                                               288
                                                     27742
                                                             3-1906
                                                                                 7-1929
281
     27675
                           Sc.
                                                     27750
                                                              3-1906
              3-1906
                                 5-1929
                                               289
                                                                           Sc.
282
     27691
              3-1906
                           Sc.
                                  1-1936
                                               290
                                                     27827
                                                              4-1906
                                                                           Sc.
                                                                                  1-1936
283
     27692
              3-1906
                           Sc.
                                 8-1925
                                               291
                                                     27828
                                                              4-1906
                                                                           Sc.
                                                                                 5-1933
284
     27702
              3-1906
                           Sc.
                                 5-1935
                                               292
                                                     27839
                                                             4-1906
                                                                           Sc.
                                                                                 7-1929
                           Sc.
285
     27718
              3-1906
                                 3-1931
                                               293
                                                     27840
                                                             4-1906
                                                                           Sc.
                                                                                 6-1934
286
     27730
              3 - 1906
                           Sc.
                                 2-1933
                                               294
                                                     27841
                                                             4-1906
                                                                                11-1933
                           Sc.
                                10-1940
287
     27741
             3-1906
                            2-4-2, 2-6-0 and 4-6-0 types
                           78"
     M1-a
               13x22x24"
                                175#
                                        73300 140000 12580#
                                                                 2-4-2
                                175#
     M-lb
               13x22x24"
                           78"
                                        73300
                                                140000
                                                        12580#
                                                                 2-4-2
                           78"
                                175#
                                                        19835#
                                                                 2-6-0
                  20x26"
                                       131400
                                                159300
     N-4a
                           78"
                  20x26"
     L-6a
                                175#
                                          2
                                                                 4-6-0
                           74"
                  19x26"
                                185#
                                       123375
                                                163750
                                                        19945#
                                                                 4-6-0
     L-6b
     All Wide Firebox
```

-838 -30 2333324 756515536040

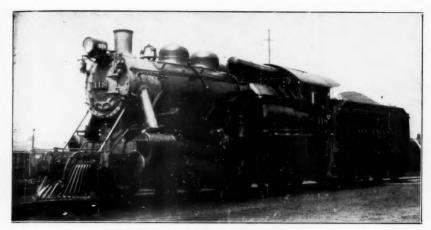


P. & R. #344 P-5c, reb. Reading Shops, 1912, at Wayne Jct., Pa.

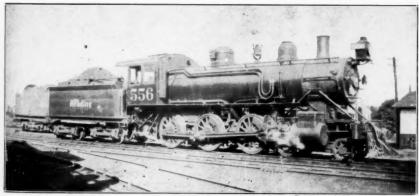


-Courtesy of K. E. Schlachter.

Reading #379-Q-la, Baldwin, 1903, at Philadelphia, Pa.

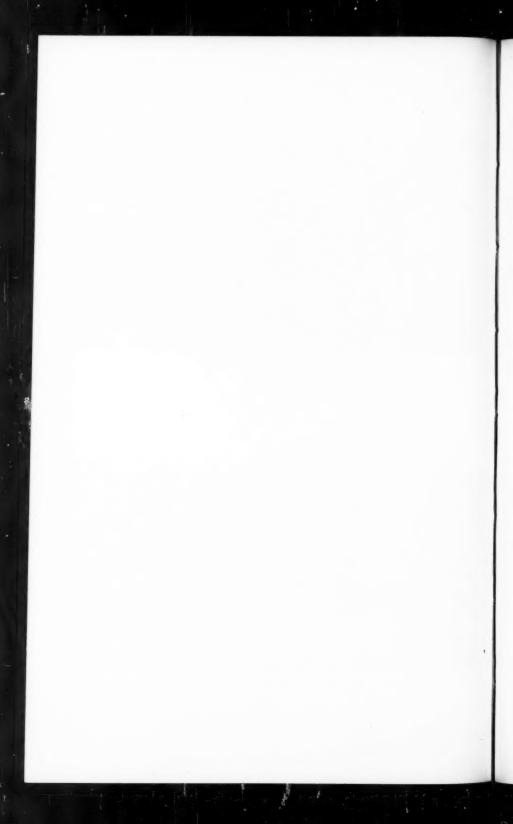


Reading #418-D-11s, Baldwin, 1914, at Rutherford, Pa.



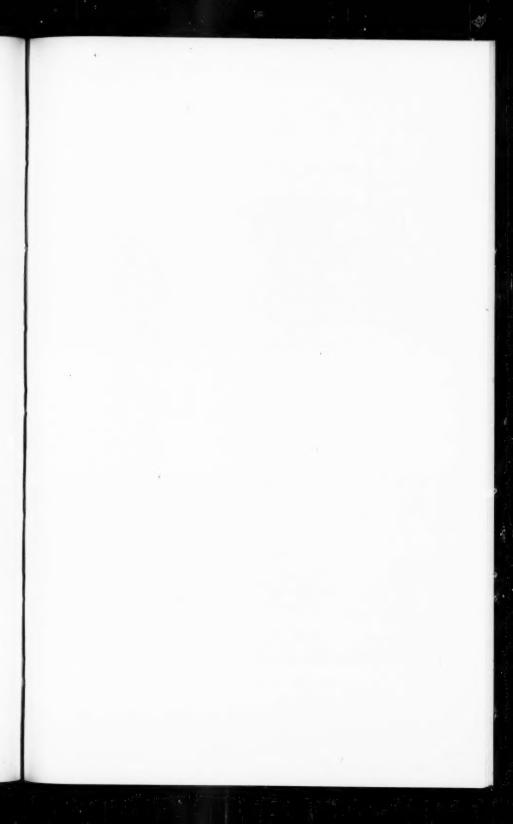
-Courtesy of Clarence R. Weaver.

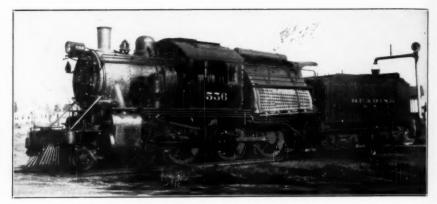
Reading #556-L-3d, reb. Reading Shops, 1905, at West Milton, Pa.



299 301 302	694 618 619	L-6b M-la M-la	Baldwin 1	2433 2676	7-1905 1-1892 5-1892	P&R* P&R*	1904	N-4a N-4a	Sc.	11-1927 12-1906 6-1909
303	620	M-la	Baldwin I	2672	5-1892	P&R* P&R*	1904	N-4a L-6a		6-1911
304 305	621 622	M-la M-la		2679 2680	5-1892 5-1892	P&R* P&R*	=	N-4a N-4a		5-1908
306 307	679 680 681	M-lb M-lb M-lb	Baldwin 1	3408 3409 3411	5-1893 5-1893 5-1893	P&R* P&R* P&R* P&R*	=	L-6b N-4a N-4a N-4a		4-1911 12-1906 12-1906 12-1906
308 309	683	M-1b		3413	5-1893	P&R*	4-1904	N-4a		
310	694	M-lb	Baldwin 1		4-1893	P&R* P&R*	7-1905	L-6a L-6b		9-1909 11-1927
302	It she	ould be	noted that th	e abov	e engine	es were	renumb	pered:	1909	
303		L-6a	renu	mbere	d 302,	8-1908.		6-1	1911	
302 310		L-6a L-6b		mbere mbere		5-1911, 5-1911,		6-1	911 927	
						,				
			4-2-	2 Rel	ouilt to	4-4-0				
385 378	Uncl Uncl D-10a		4-2-2 13&2 4-4-0	22x26" 22x26" 19x26"	84¼" 84¼" 84¼"	200# 200# 200#	48000 51600 98625	115000 122400 150000	14465 14465 18895	#
316 317	D-10b 385 378	,	Baldwin 1	19x26" 4336 4675	78½" 6-1895 1-1896	200# P&R* P&R*		154050 Re 251, 252,	20325 D-10b D-10a	# 5, 5-1911 1, 5-1911
				_						
				4	1-4-2					
		P-1b	13&22x26"	841/4"	200#	81200			465#	
		P-1c P-1e	13x22x26" 20x26"	84¼" 84¼" 84¼"	200#	87800 93200	16740 16600		465# 985#	
		P-1f P-2a	20x26"	84½" 78"	200# 205#	95850 102050	17110 19240	0 20	985# 410#	
	315	P-2a	20½x26" 13&22x26"	78"	175#	78700	14000	12	580#	
		P-2b P-3a	20½x26"	78"	205#	102050	19240		410#	
		P-3a P-3b	15&22x24" 15&22x24"	841/4"	220# 225#	84200 94900	17400 18470		250# 685#	
		P-3c	21x24"	841/4"		89900	176650	234	90#"	
		P-3d P-4a	21x24" 21x24"	841/4"	220#	99325 89900	18580 17630		490# 095#	
		P-4b	21x24"	8414"	225#	98600	18200	0 24	095#	
		P-4c	21x24"	84½" 80"	225# 225#	100350	18680	0 24	095# 700#	
		P-4d P-4e	21x24" 21x24"	80"	225#	107825 105350	19270 19617	5 24	700#	
		P-4f	21x24"	841/4"	225#	101625	19650	0 24	095#	
		P-5a P-5b	21x27"	86" 86"	230# 230#	125900 129475	22320 22195		065# 320#	
		P-5c	21½x26" (3)19x24"	80"	230#	124875	23402	5 31	760#	
		P-5sc	22x26"	80"	215#	124875	23402	28	745#	
		P-5sd P-5se	23x26" 23x27"	80" 86"	215# 215#	129035 134500	22402 22050		420# 350#	
		P-6a	(3)19x24"	80"	240#	126925	22375	0 33	140#	
		P-6b	22x26"	80"	240#	122000	21745	0 32	090#	
		P-6sb P-7sa	22x26" 23½x26"	80" 80"	215# 215#	122000 129210	21745 23192		745 <u>#</u> 800#	
		P-7sb	23½x26"	80"	215#	129210			800#	
				All wid	e firebo					

300		P-6a	P&R		6-1911	P&R*	4-1917	P-6sb		
301		P-2a	P&R		6-1907		nbered 3			
301		P-6b	P&R		6-1911	P&R*	1-1923	P-6sb	11	
302		P-6b	P&R		6-1911	P&R*	6-1916	P-6sb		
303		P-6a	P&R		6-1909					/ 244
304						P&R*	6-1916	P-6sb		2x24"
305		P-2a P-2a	P&R		11-1909	P&R*	1-1914	P-2b	Sc	
		P-2a	P&R		6-1911	P&R*	3-1914	P-2b		1-1936
306		P-2a	P&R		6-1907	P&R*	6-1915	P-2b		1-1936
307		P-2a	P&R		6-1907	P&R*	1-1914	P-2b		1-1936
308		P-2a	P&R		6-1907	P&R*	10-1913	P <sub>2b</sub>		11-1934
309		P-2a	P&R		11-1909	P&R*	11-1914	P-2b		3-1935
310		P-2a	P&R		6-1911	P&R*	4-1914	P-2b		7-1934
311	376	P-1b	Baldwin	15880	4-1898	P&R*	3-1904	P-le		8-1932
312	377	P-1b	Baldwin	15881	4-1898	P&R*	6-1904	P-le		12-1932
313	383		Baldwin	15882	4-1898	P&R*	4-1904	P-le		11-1927
314	384	P-1b	Baldwin	15883	4-1898	P&R*	4-1904	P-le		8-1928
315	682		P&R*		1899	P&R*		L-6a		3-1908
315		P-2a	P&R		3-1908	P&R*	4-1915	P-2b		11-1934
316		P-2a	P&R		6-1907	P&R*		P-2b		12-1923
317		P-2a	P&R		6-1911	P&R*	5-1914	P 2b		2-1931
318		P-1c	Baldwin	17787	5-1900	P&R*	2-1904	P-If		9-1933
319		P-1c	Baldwin	17788	5-1900	P&R*	6-1904	P-lf		9-1933
320		P-1c	Baldwin	17812	6-1900	P&R*	4-1904	P-If		7-1930
321		P-Ic	Baldwin	17813	6-1900	P&R*	1-1904	P-II		
322		P-3a	Baldwin	17741	5-1900					10-1933
366		r-2a	Daidwin	1//41	5-1900	P&R*	1-1904	P-3c		0.1033
323		D 2-	Daldada	17742	E 1000	P&R*	12-1914	P-3d		9-1933
343		P-3a	Baldwin	17742	5-1900	P&R*	12-1903	P-3c		
224		D 2	D 11 1	1000	F 1000	P&R*	4-1923	P-3d		8-1933
324		P-3a	Baldwin	17765	5-1900	P&R*	11-1903	P-3c		
205						P&R*	4-1922	P-3d		1-1933
325		P-3a	Baldwin	17766	5-1900	P&R*	11-1903	P-3c		
		-				P&R*	7-1915	P-3d		7-1930
326		P-3a	Baldwin	17767	5-1900	P&R*	12-1903	P-3c		
						P&R*	3-1916	P-3d		1-1933
327		P-3a	Baldwin	17768	5-1900	P&R*	3-1904	P-3c		
						P&R*	4-1914	P-3d		8-1933
328		P-4a	Baldwin	20529	6-1902	P&R*	5-1914	P-4d		2-1933
329		P-3b	Baldwin	20531	6-1902	P&R*	2-1904	P-4a		2-1777
						P&R*	2-1915	P-4d		3-1933
330		P-4b	Baldwin	22266	5-1903	P&R*	3-1917	P-4e		6-1935
331		P-4b	Baldwin	22267	5-1903	P&R*	4-1916	P-4e		6-1935
332		P-4b	Baldwin	22274	6-1903	P&R*	3-1915	P-4e	Sc.	6-1935
333		P-4b	Baldwin	22287	6-1903	P&R*	2-1914	P-4e	St.	6-1935
334		P-4c	Baldwin	24164	4-1904	P&R*	4-1914	P-4f		9-1933
335		P-4c	Baldwin	24172	5-1904	P&R*	2-1915	P-4f		
336		P-4c	Baldwin	24188	5-1904	P&R*	3-1917			7-1933
337		P-4c						P-4f		8-1935
338		P-4c	Baldwin	24199	5-1904	P&R*	3-1917	P-4f		11-1934
339			Baldwin	24225	5-1904	P&R*	2-1915	P-4f		3-1935
		P-4c	Baldwin	24272	5-1904	P&R*	2-1914	P-4f		8-1935
340		P-5a	P&R		2-1906	P&R*	3-1917	P-5se°		4-1944
341		P-5a	P&R		4-1906	P&R*	2-1915	P-5sd		
342		P-5a	P&R		5-1906	P&R*	5-1916	P-5se		
343		P-5a	P&R		5-1906	P&R*	6-1916	P-5se		
344		P-5a	P&R		5-1906	P&R*	6-1912	P-5c		
						P&R*	6-1917	P-5sc		
345		P-5b	P&R		6-1906	P&R*	3-1915	P-5sd		
346		P-5b	P&R		7-1906	P&R*	3-1915	P-5sd		
347		P-5b	P&R		8-1906	P&R*	12-1914	P-5sd		
348		P-5b	P&R		9-1906	P&R*	3-1917	P-5se		
349		P-5b	P&R		11-1906	P&R*	6-1915	P-5se	Ret	4-1944
350	112	P-7sa	P&R*		1916	P&R*	3-1924	P-7sb		





Reading #556-L-3se, reb. Reading Shops, 1921.



—Courtesy of C. E. Fisher.

P. & R. #589—L-5sc, reb. Reading Shops, 1917, at Allentown, Pa.

1916 110 P-7sa P&R\* P&R\* P-7sb P-7sb 4-1924 352 P-7sa P&R\* 1916 P&R\* 4-1924 111 353 113 P-7sa P&R\* 1916 P&R\* 4-1924 P-7sb No. 315, although first classified as P-2a in reality had 13&22x26" cyl. 78" 175# 78700 140000 12580#(W) No. 303, although classified as P-6a in reality had (3)18x½x24" 80" 122000 217450 28745#(W) 2-6-4T — Suburban Q-la(W) Q-lb(W) 20x24" 611/2" 200# 120860 201700 26535# 20x24" 61½" 61½" 200# 115925 211625 26535# 20x24" Q-lc(W) 200# 127900 204800 26500# 611/2" Q-Id(W) 20x24" 200# 115925 211625 26585# 22591 376 Q-la Baldwin 8-1903 P&R\* 11-1921 1-1936 377 Õ-la 22613 8-1903 P&R\* 9-1921 Baldwin 9-1930 Õ-la 378 22617 P&R\* 8-1903 6-1922 Baldwin 1-1936 8-1903 4-1922 379 Q-la Baldwin 22627 P&R\* 10-1933 22636 8-1903 12-1921 Q-la 380 P&R\* 1-1936 Baldwin 381 Õ-la 22673 8-1903 P&R\* 8-1921 1-1934 Baldwin 382 Õ-lb Õ-lb 24175 5-1904 P&R\* 3-1922 1-1936 Baldwin 24176 383 Baldwin 5-1904 P&R\* 8-1920 1-1936 Õ-lb Q-lb 24226 384 5-1904 P&R\* 2-1922 11-1934 Baldwin 385 Baldwin 24227 5-1904 P&R\* 10-1921 9-1933 All changed to class Q-1d 4-6-0 18x22" 48" 60400 84000 F-la 115# 14515# 18x22" 120# 15145# F-1b 48" 62000 85000 18x22" 48" 115# 57100 14515# F-Ic 83700 F-Id 18x22" 48" 56000 120# 83600 15145# F-la 11-1905 401 1053 P&R 1864 Sc. F-2c P&R\* 402 132 1899 4-1905 138 F-la P&R 11-1864 P&R\* F-1c 4-1911 403 F-la 404 141 P&R 1-1865 1-1905 405 157 F-la P&R 8-1864 1-1903 F-la 158 3-1905 406 Norris-Lanc 1865 F-la 407 161 Norris-Lanc 1865 Sold-Poulterer & Co. 1902 408 164 F-la 8-1865 Sold-Poulterer & Co. 4-1902 P&R F-la F-1c Sc. 409 165 P&R 8-1865 P&R\* 4-1911 F-la 410 Norris-Lanc 1865 1902 167 Sold-Poulterer & Co. F-la 411 170 P&R 10-1865 3-1905 412 171 F-la P&R 10-1865 11-1907 413 F-la F-la 1866 Norris-Lanc 178 Sold—Poulterer & Co. 1902 414 180 E. S. Norris E. S. Norris 1866 3-1905 415 181 F-la 1866 P&R\* F-Ic 4-1905 F-la 416 184 Norris-Lanc 1866 3-1905 F-1b P&R 417 207 2-1869 3-1903 F-1b 418 211 P&R 3-1869 6-1902 Sold-D. Gring 3-1905 419 231 F-1b P&R 6-1869 Sc 233 F-1b 1882 420 Baldwin 5-1869 2-1903 421 236 F-1b 1893 5-1869 7-1902 Baldwin 422 237 F-1b 1891 5-1869 Baldwin 11-1905 423 242 F-1b 11-1905 Baldwin 1910 6-1869 424 246 F-1b P&R 8-1869 P&R\* F-1d 8-1906 425 F-1b 261 P&R 1-1870 Sold-D. Gring 6-1902 F-1b 426 263 P&R 3-1870 4-1905 Sc. F-Ib 427 269

4-1870

5-1870

1-1903

11-1907

P&R

P&R

F-1b 275

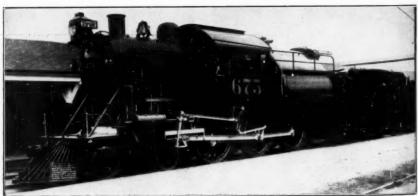
428

429 287 F-1b P&R 430 289 F-1b P&R 431 321 F-1b P&R 432 322 F-1b P&R 433 325 F-1b P&R 434 327 F-1b P&R 435 329 F-1b P&R 436 336 F-1b P&R 437 337 F-1b P&R 438 338 F-1b P&R 439 35 F-1b P&R 440 38 F-1b P&R 441 15 F-1b P&R 442 353 F-1b P&R 443 374 F-1b P&R 444 375 F-1b P&R 445 379 F-1b P&R	8-1870 9-1870 3-1871 5-1871 7-1871 8-1871 11-1871 11-1871 11-1872 8-1872 9-1872 10-1872 11-1872 11-1872	Sold—D. Gring         P&R* —         P&R* —         P&R* —	F-Id Sc. Sc Sc	12-1902 4-1905 3-1905 8-1903 8-1903 10-1906 4-1912 8-1912 10-1902 4-1905 3-1907 11-1912 9-1911 3-1907 5-1912 5-1911
	4-4-0			
D-8c (W) 20x24" D-8sd(W) 21x24" D-11s(W) 21x24"	681/2" 200# 120	250 166925 2501 663 169825 2626 528 173490 2758	5#	
400 D-8c P&R 401 D-8c P&R 402 D-8c P&R	4-1911 4-1911 4-1911	P&R* 1-1922 I	Sc. D-8sd	i0-1940 10-1940 4-1932
403 D-8c P&R 404 D-8c P&R 405 D-8c P&R	4-1911 4-1911 4-1911	P&R* 3-1920 I	D-8sd	4-1932 10-1940 6-1935
406 D-8c P&R 407 D-8c P&R 408 D-8c P&R 409 D-8c P&R 410 D-11s Baldwin	4-1911 5-1911 5-1911 5-1911 41191 2-1914	P&R* 12-1920 I	D-8sd D-8sd D-8sd	10-1940 10-1940 7-1934 5-1941
411 D-11s Baldwin 412 D-11s Baldwin 413 D-11s Baldwin 414 D-11s Baldwin	41192 2-1914 41193 2-1914 41194 2-1914 41195 2-1914			4-1944 5-1941 5-1941 5-1941
415 D-11s Baldwin 416 D-11s Baldwin 417 D-11s Baldwin 418 D-11s Baldwin 419 D-11s Baldwin	41213 3-1914 41214 3-1914 41215 3-1914 41216 3-1914 41217 3-1914			5-1941 5-1941 5-1941
	4-6-0			
F-2a 18x22" 48" F-2b 18x22" 48"	145# 63800 145# 68500	91300 18300# 92100 18300#		
F-2c 18x22" 48" F-2e 18x22" 48" 446 131 F-2c P&R*		91500 18300# 93800 18300#	Sc.	3-1912
447 174 F-2c P&R* 448 135 F-2a P&R* 449 230 F-2b P&R*	6-1899			4-1916 3-1915 12-1911
450 77 F-2e P&R* 451 87 F-2a P&R* 452 352 F-2b P&R*	2-1888			11-1913 4-1905 8-1925
453 155 F-2a P&R* 454 239 F-2b P&R*	_			7-1913



-Courtesy of the Reading Co.

Reading #616-L-6sa, reb. Reading Shops, 1930.



-Courtesy of the Reading Co.

Reading #675-L-10a, Reading Shops, 1911.

,	455 456 457 458 459	250 169 339 241 345	F-2b F-2a F-2b F-2b F-2a	P&R* P&R* P&R* P&R* P&R*		7-	-1888 				qua & F	ogels	11-1923 4-1913 5-1917 6-1913 ville Ry.
	460 461 462 463 464 465 466	163 162 78 159 160 18 265	F-2b F-2a F-2e F-2a F-2a F-2b F-2b	P&R* P&R* P&R* P&R* P&R* P&R*		2	-1890	P&R	94, 9- *	-1903	- F-2a	Sc. Sc.	8-1913 7-1913 2-1916 10-1912 1-1916 1-1910 2-1916
	u in /	F-3a( F-4a( F-4b)	(W)	18x22" 18x22" 18x22" P&R*	48" 48" 48"	120# 145# 145#	6350 7300 7600	0 9	9200 8000 3000	1514 1830 1830	00#	Sc.	4-1905
4	468 469 470	234 240 168	F-4b F-4b F-4a	P&R* P&R* P&R*			-1877 -1894		—Qua 3-1918		own & E		5-1917 8-1917
444444444444444444444444444444444444444	471 472 473 474 475 476 477 478 479 480 481 482 483	153 156 176 248 223 282 92 244 89 166 1052 1051 185	F-4a F-4a F-4b F-4a F-4b F-4b F-4b F-4b F-4b F-4b	P&R* P&R* P&R* P&R* P&R* P&R* P&R* P&R*		5- 8- 1-	1890 -1891 -1891 -1892 -1893 -1892	К., С				Sc.	5-1915 9-1920 10-1912 1-1915 1-1918 5-1916 8-1909 8-1915 4-1915 1-1921 11-1915 12-1920 5-1916
					4	-6-0 Un	classifi	ed					
4	184 185 186 187 188	145 147 148 149 152	Norris Norris Norris	s-Phila. s-Phila. s-Lanc. s-Phila. s-Lanc.	1865 1865 1865 1865 1865	17x22" 17x22" 17x22" 17x22" 17x22"	55" 55" 55" 55"	110# 110# 110# 110# 110#	6547 6547 6727 6547 6727 Co.,	75 75	Sold—Po	Sc.	4-1903 7-1901 4-1901 4-1901 er &
						4-6	-0						
4 4 4 4 4 4	189 190 191 192 193 194 195 196		P&R P&R P&R P&R P&R P&R P&R P&R P&R P&R	8x24" 54" 4-1873 S 5-1873 5-1873 6-1873 7-1873 9-1873 9-1873 9-1873 9-1874 00 & 504 wd 502 were s	c. 9 10 10 10 17 7 19 9 9 4 11	# 63000 -1911 -1902 Note -1911 Note -1912 -1911 -1905 -1906 Id to Po	8900 49 49 50 50 50 50 50	8 9 10 11 44 12 44 3 4 4 5 3	23 P 63 P 05 P 06 P 07 P 45 P 16 P	&R &R &R &R &R &R &R &R	9-1874 9-1875 2-1876 4-1876 9-1876 10-1876 9-1877 10-1877	Sc.	11-1907 7-1915 Note 10-1912 Note 11-1907 Note 10-1911

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H-2a
                         18x24"
                                  54"
                                         145# 69500
                                                         95000
                                                                17750#
             H-2b
                         18x24"
                                  54"
                                         145#
                                                                17750#
                                                63300
                                                         94000
                                  54"
             H-3a(W)
                         18x24"
                                          120#
                                                75000
                                                         98300
                                                                14690#
                         18x24"
             H-4a(W)
                                  54"
                                         145#
                                                73500
                                                        103400
                                                                17750#
             H-5a
                         18x22"
                                  52"
                                         115#
                                                62000
                                                         82000
                         18x22"
                                  52"
             H-6a
H-7a
                                         115#
                                                61000
                                                         80500
                         18x22"
                                  52"
                                         115#
                                                65000
                                                         87000
                                                                14615#
                                          3-1899
506
        16
            H-2b
                   P&R*
                                                                            Sc.
                                                                                  1-1918
507
         9
            H-2a
H-2a
                   P&R*
                                                                                  7-1911
508
                   P&R*
       408
                                                                                  8-1920
            H-2a
509
                   P&R*
       394
                                                                                  8-1915
                   P&R*
            H-2a
510
       393
                                         11-1888
                                                                                 10-1920
            H-2a
H-2a
511
        43
                   P&R*
                                                                                  8-1916
512
                   P&R*
       119
                                                                                 12-1910
513
       412
            H-3a
                   P&R
                                                                                 12-1906
                                          3-1878
514
                   P&R*
        24
            H-4a
                                                                                 10-1912
515
        60
            H-4a
                   P&R*
                                         12-1897
7-1890
                                                                                  1-1921
            H-4a
516
                   P&R*
        46
                                                                                 10-1921
                   P&R*
517
        13
            H-4a
                                         10-1890
                                                                                  4-1921
518
       386
                   P&R*
                                         10-1890
                                                                                  3-1921
            H-4a
519
       395
            H-4a
                   P&R*
                                          5-1891
                                                                                  8-1922
            H-4a
520
                   P&R
        72
                                                                                  9-1912
521
            H-4a
       390
                   P&R*
                                                                           Sc.
                                                                                11-1914
522
       438
                                   2156
                                                                                  6-1902
            H-5a
                   Baldwin
                                         6-1870
                                                  Sold-D. Gring,
523
       456
            H-5a
                                   1733
                                          6-1868
                                                  Sold-D. Gring,
                                                                                  6-1902
                   Baldwin
            H-5a
524
525
       458
                   Baldwin
                                   1813
                                         12-1868
                                                                           Sc.
                                                                                  1-1903
       465
            H-6a
                   Baldwin
                                   2203
                                          8-1870
                                                                                 10-1900
                                          8-1870
                                                                                  2-1903
526
       466
            H-6a
H-7a
                   Baldwin
                                   2204
527
                                   3583
       441
                   Baldwin
                                          5-1874
                                                  Sold-D. Gring,
                                                                                  6 - 1902
                                                                           Sc.
528
      444
            H-7a
                   Baldwin
                                   3666
                                         11-1874
                                                                                  3-1913
529
       484
                                   3920
                                                                                 12-1911
            H-7a
                   Baldwin
                                          6-1876
530
       492
            H-7a
                                   3932
                                                                                 11-1905
                   Baldwin
                                          6-1876
                                     Unclassified
526
                                     1900 4-6-0
            Richmond
                                                  18x24" 611/2"
                                                                   130225
                                                                           Sc.
                                                                                 9-1922
527
                                          4-6-0 20x24" 611/2"
                           12619
                                   4-1892
                                                                                  5-1923
            Baldwin
                                                                   143025
                                           2-6-0 20x24" 611/2"
528
      623
            P&R(W)
                                                                   121425
                                                                                  2-1920
      Nos. 526 & 527 from Mt. Carmel & Natalie R. R. 2 & 9-1908.
                                         4-6-0
                                  20x24" 611/2"
                                                   145#
            L-la(W)
                                                          93000
                                                                  121000 19240#
                                           611/2"
            L-lb(W)
                                  20x24"
                                                   160#
                                                         108300
                                                                  131800
                                                                          21230#
                                  20x24"
            L-lc(W)
                                                   175#
                                                          95500
                                                                  129900
                                          611/2"
                                                   175#
                            131/2&23x24"
                                                          99200
                                                                  130500
                                                                          17330#
            L-2a(W)
531
      554
                  Baldwin
                                 10705
                                          3-1890
                                                  P&R*
                                                            5-1902 L-1b Sc.
                                                                                 5-1926
            L-la
      555
                                          3-1890
                                                                                  7-1926
532
            L-la
                  Baldwin
                                 10706
533
      556
                                          3-1890
                                                  P&R*
                                                                                 1-1927
                                 10707
                                                                     L-1c
            L-la
                   Baldwin
534
      557
                  Baldwin
                                 10708
                                          3-1890
                                                                                12-1914
            L-la
                                          3-1890
3-1890
                                                  P&R*
                                                           12-1916
                                                                                 2-1927
535
      558
                  Baldwin
                                 10718
                                                                      -lc
           L-la
536
      559
            L-la
                  Baldwin
                                 10712
                                                  P&R*
                                                           10-1917
                                                                     L-lc
                                                                                 1-1928
                                          3-1890
537
           L-la
                  Baldwin
                                 10719
                                                                                 8-1927
      560
538
      561
           L-la
                  Baldwin
                                 10720
                                          3-1890
                                                                                 7-1922
539
      562
                                 10721
                                          3-1890
                                                  P&R*
                                                           10-1917 L-1c
                                                                                 4-1944
                  Baldwin
           L-la
                                          9-1893
                                                                                 2-1929
            L-la
540
      563
                  P&R*
                                                                                10-1940
541
      564
                  Baldwin
                                 10729
                                          3-1890
           L-la
                                 10724
                                                                                 7-1922
                                          3-1890
542
      565
           L-la
                  Baldwin
                                          3-1890
                                                                                 5-1923
543
      566
                  Baldwin
                                 10737
           L-la
                                          3-1890
                                                                                10-1920
544
      567
           L-la
                  Baldwin
                                 10748
```

23 00



-Courtesy of C. E. Fisher.

Reading #693-L-8a, Baldwin, 1906, at Camden, N. J.



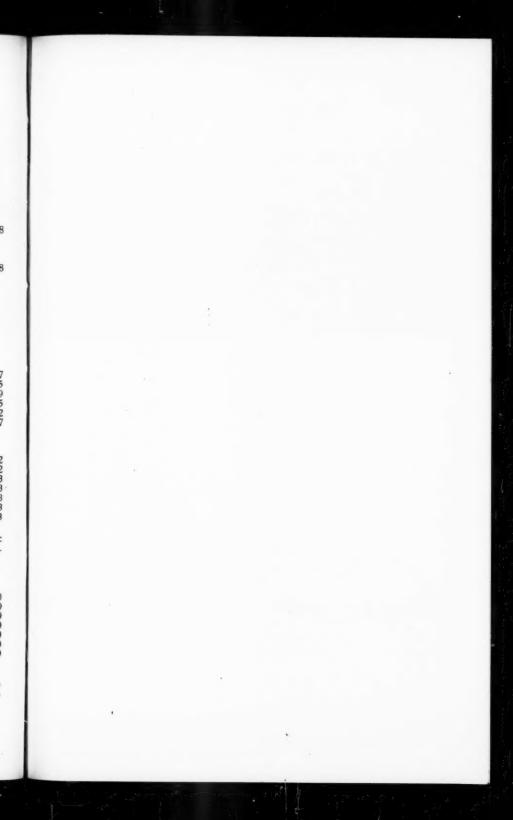
-Courtesy of C. E. Fisher

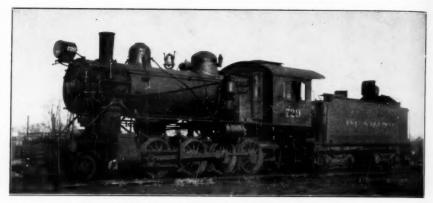
Reading #708-1-2e, Reading Shops, 1906, at Camden, N. J.

545 546 547 548 549 550 551 552 553 554 555	568 608 609 610 611 612 613 614 615 616	L-1a L-2a L-2a L-2a L-2a L-2a L-2a L-2a L-2	Baldwin	10745 12382 12383 12379 12393 12396 12401 12402 12418 12425 12424	3-1890 12-1891 12-1891 12-1891 1-1892 1-1892 1-1892 1-1892 1-1892 1-1892 1-1892	P&R* P&R* P&R* P&R* P&R* P&R* P&R* P&R*	12-190 6-190 1-190 12-190 6-190 9-190 6-190 4-190 8-190	3 L-lc 4 L-lc 6 L-lc - L-lc 4 L-lc 2 L-lc 4 L-lc 4 L-lc	Sc.	8-1927 5-1924 9-1926 3-1935 4-1922 4-1924 11-1926 9-1924 5-1926 12-1927	
		L-3a L-3b L-3c L-3d L-3se	14&24x26 <sup>1</sup> 14&24x26 <sup>1</sup> 22x26 <sup>1</sup> 21x26 <sup>1</sup> 22x26 <sup>1</sup> 21x26 <sup>1</sup> (W) 22x26 <sup>1</sup>	61" 61" 61½" 61½" 61½"	200# 200# 185# 200# 185#	111000 112700 112700 117075 111000 119125 139375	152000 155600 155600 157050 152000 155250 187500	23415# 23415# 35070# 29300# 35070# 29300# 34750#		ouilt ouilt	
556	12	L-3a	Baldwin	15900	5-1898	P&R*	7-1905	L-3d			
						P&R*	11-1921	L-3se			
557	14	L-3a	Baldwin	15901	5-1898	P&R* P&R*	5-1905 3-1906				
						P&R*	1-1922	L-3se			
558	31	L-3a	Baldwin	15902	5-1898	P&R*	5-1904				
						P&R*	5-1906 4-1923				
559	48	L-3a	Baldwin	15903	5-1898	P&R*	6-1904				
						P&R*	7-1904		_		
560	187	1 2-	Dalabaia	15904	E 1000	P&R*	3-1921	L-3se L-3c	Sc.	10-1940	
560	187	L-3a	Baldwin	15904	5-1898	P&R* P&R*	6-1904 12-1905				
						P&R*	7-1923	L-3se			
561	214	L-3a	Baldwin	15905	5-1898	P&R*	6-1904				
						P&R*	7-1904 9-1920				
562	227	L-3a	Baldwin	15906	5-1898	P&R*	3-1905				
,00			Datama	17700	, ,0,0	P&R*	5-1906				
F.(2)	ara.			15005	F 1000	P&R*	8-1923	L-3se			
563	270	L-3a	Baldwin	15907	5-1898	P&R* P&R*	1-1905 12-1905				
						P&R*	1-1921	L-3se			
564	333	L-3a	Baldwin	15908	5-1898	P&R*	3-1902		see	above	
						P&R*	11-1923	L-3se			
		L-4a( L-4b L-4c( L-4d I-4e( L-4f	W) 14&24x2 22x2 22x2	26" 61" 26" 61" 26" 61" 26" 61½		120100 111400 120100 111400 129025 114825	157300 161000 157300 167200	23415# 35070# 35070# 31700#			
565	433	L-4a	Baldwin	16656	4-1899	P&R*	4-1900	L-4c			
***	425					P&R*	9-1905	L-4e	Sc.	4-1944	
566	435	L-4a	Baldwin	16657	4-1899	P&R* P&R*	12-1904 12-1906			5-1941	
567	436	L-4a	Baldwin	16658	4-1899	P&R*	1-1905			7-1741	
						P&R*	5-1906	L-4e		2-1937	
568	450	L-4a	Baldwin	16659	4-1899	P&R*	3-1905				
569	455	L-4a	Baldwin	16660	4-1899	P&R* P&R*	11-1905 3-1905	L-4e L-4c			
707	177	L-Ta	Datawill	10000	1-1077	P&R*	5-1908			10-1940	

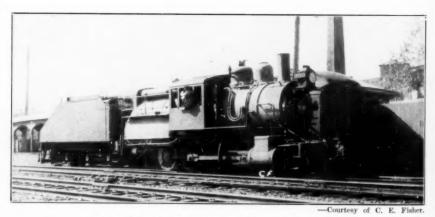
5	71		L-4b	Baldwin	17907	7-1900	P&R*	7-1904	L-4d			
5	72		L-4b	Baldwin	17908	7-1900	P&R* P&R* P&R*	6-1905 8-1904 10-1905	L-4f L-4d L-4f			
5	73		L-4b	Baldwin	17918	7-1900	P&R* P&R* P&R*	4-1923 2-1905 7-1906	L-3se L-4d L-4f			
5	74		L-4b	Baldwin	17944	7-1900	P&R* P&R* P&R*	4-1926 10-1904 8-1906	L-3se L-4d L-4f			
5	75		L-4b	Baldwin	17945	7-1900	P&R* P&R* P&R*	4-1926 3-1905 11-1905	L-3s L-4d L-4f		12-1928	
5	76		L-4b	Baldwin	17953	7-1900	P&R*	4-1904 6-1905	L-4d L-4f		12-1926	
57	77		L-4b	Baldwin	17966	7-1900	P&R* P&R*	7-1904 8-1905	L-4d L-4f		3-1928	
5	78		L-4b	Baldwin	17967	7-1900	P&R* P&R*	5-1904 10-1905	L-4a L-4f		7-1720	
5	79		L-4b	Baldwin	17968	7-1900	P&R* P&R* P&R*	5-1926 8-1904 8-1905	L-3s L-4d L-4f			
58	80		L-4b	Baldwin	18005	8-1900	P&R* P&R* P&R* P&R*	12-1927 6-1904 10-1905 2-1929	L-3s L-4d L-4f L-3s			
					I In also	-10-1 4		2-1929	L28	e		
50	81	W&N	#12	Baldwin	Unclas 1163	8-1863	-6-0 18x22"	54" 80	000	6-	11 1007	
	82	W&N	#14	P&R	1105	1869	18x22"		000	Sc.	11-1907 3-1905	
	83	W&N	#13	Baldwin	1550	12-1866	18x22"		000		6-1909	
	34	W&N	#11	Baldwin	2283	11-1870	16x24"		000		3-1905	
	35	W&N	#19	Baldwin	13148	1-1893	19x24"	62" 116	000		1-1912	
5	86	W&N	#20	Baldwin	13867	12-1893	19x24"	62" 116	000		1-1927	
		L-5a		22x28" 68½		131200	171100	33635#				
		L-5b L-5sc		21x28" 68½ 22x28" 68½		124750	167325	30645				
50	87	L-5sc L-5a	Baldy		" 200# 8-1902	147550	186350 5 L-5a	33630# Baldwi	17	20898	9-1902	
	88	L-5a	Baldy		8-1902	59		Baldwi		20943	9-1902	
	89	L-5a	Baldy		8-1902	59	7 L-5a	Baldwi	n		5-1903	
	90	L-5a	Baldy		8-1902	59		Baldwi	n	22211 22221	5-1903	
	91	L-5a	Baldy		8-1902	59	99 L-5a	Baldwi	n	22226	5-1903	
	92	L-5a	Baldy		8-1902	60		Baldwi		22261	5-1903	
	93	L-5a L-5a	Baldy		8-1902 8-1902	60	1 L-5a	Baldwi	n	22277	6-1903	
7:	24	All of 1917-1	the 922.	above engines Nos. 593-597 so others are acti	were re	ebuilt to d to the	L-5b in Central	1905 a R. R. o	nd re f N.	built t J., 2 &	to L-5sc 3-1936.	
		L-7a(		22x28" 68½		169800	213525	34475#				
		L-7b(	W)	23x28" 68½	" 205#	160800	213525	37680#				
		L-7sb	(W)	22x28" 68½	" 205#	169000	216640	37680#				
60		L-7a	Baldy	vin 26266	8-1905	61	0 L-7a	P&R			9-1910	
60		L-7a	Baldy		8-1905 8-1905	61		P&R			9-1910	
60		L-7a L-7a	Baldy		9-1905	61		P&R P&R			9-1910 9-1910	
60			P&R	20019	8-1910	61		P&R			9-1910	
60		L-7a	P&R		8-1910	61		P&R			9-1910	
60	18	L-7a	P&R		8-1910	61	6 L-6sa	P&R*			1-1930	
60	)9	L-7a	P&R		8-1910				# 18	7175		
						23	5400 40	435#				

All of the above engines were rebuilt to L-7b, 1917-18 and rebuilt to L-7sb 1920. No. 603 was renumbered 616 at time of rebuilding. No. 610 was Sc. 3-1936.





Reading #729-1-3a, reb. Reading Shops, 1903, at Bridgeport, Pa.



Reading #950-1-5c, reb. Reading Shops, 1903, at Wayne Jct., Pa.

```
200#
     L-8b(W)
                   22x24" 681/2"
                                          151175
                                                   199600
                                                            28830#
                                   200#
200#
                   22x24"
                           68½"
68½"
      L-8d(W)
                                          156600
                                                   195500
                                                            28830#
                   22x24"
      L-8se(W)
                                          152900
                                                   198300
                                                            28800#
     L-8b
            P&R
                     8-1911
                                 P&R*
                                           7-1914
                                                   L-8d
                                                           5-1924 L-8se
                                                                            Sc.
                                                                                  4-1944
651
            P&R
                                 P&R*
                                           3-1915
                                                          12-1924
651
      L-8b
                     8-1911
                                                   L-8d
                                                                   L-8se
                                                                                  4-1944
            P&R
                     8-1911
                                 P&R*
                                          9-1914
                                                   L-8d
                                                                   L-8se
652
     L-8b
                                                           6-1924
                     8-1911
                                 P&R*
                                           2-1915
                                                           5-1924
653
     L-8b
            P&R
                                                   L-8d
                                                                   L-8se
654
     L-8b
            P&R
                     8-1911
                                 P&R*
                                          9-1915
                                                  L-8d
                                                           7-1924
                                                                  L-8se
                                 74"
     L-10a(W)
                        19x24"
                                        240#
                                               172600
                                                       226750
                                                                35825#
                 (3)
                                74"
                        22x26"
                                        240#
                                                       221500
     L-10b(W)
                                               169675
                                                                34690#
                                        215#
     L-10sb(W)
                       22x26"
                                 74"
                                               167250 221050 31100#
                                          7-1916 L-10b
     L-10a P&R
L-10b P&R
                     6-1911
                                 P&R*
                                                           7-1923 L-10sb
675
                                 P&R*
                                          2-1923 L-10sb 205# 171625 220450 29600#
676
                     6-1911
                     21x26" 68½"
                                     200#
                                            151025
     L-8a(W)
                                                     196125 28455#
     L-8sc(W)
                     22x26"
                              681/2" 200#
                                            161375
                                                     199800 31200#
                                                     L-8a
     L-8a
            P&R*
                                 10-1912
                                                696
690
                                                            Baldwin
                                                                         27979
                                                                                  4-1906
                         27931
27932
691
     L-8a
            Baldwin
                                  4-1906
                                                697
                                                     L-8a
                                                            Baldwin
                                                                         28008
                                                                                  4-1906
                                  4-1906
     L-8a
                                                                                  4-1906
                                                698
                                                     L-8a
                                                                         28016
692
            Baldwin
                                                            Baldwin
693
     L-8a
            Baldwin
                         27933
                                  4-1906
                                                699
                                                     L-8a
                                                            Baldwin
                                                                         28045
                                                                                  4-1906
694
     L-8a
                         27934
                                  4-1906
                                                      Rebuilt & renumbered 690, 1912
            Baldwin
                                                700 L-8a Baldwin
695
     L-8a
                         27960
                                  4-1906
                                                                         28112
                                                                                  5-1906
            Baldwin
     All of the above were equipped with superheaters and reclassified 1921-8.
                                         2-8-0
     I-la(W)
                     20x24"
                              501/2"
                                      120#
                                             98300
                                                    113900
                                                             19390#
                     20x24"
                              501/2"
                                      120#
     1-1b(W)
                                             99500
                                                     114000
                                                              19390#
                     20x24"
                              501/2"
     I-lc(W)
                                      120#
                                             99500
                                                     114000
                                                              19390#
     I-Id(W)
                                      150#
                     20x24"
                              501/2"
                                            103500
                                                     120900
                                                              24235#
     I-le(W)
                     20x24"
                              501/2"
                                      150#
                                            104100
                                                     119600
                                                              24235#
     I-2e(W)
I-2f W)
                   20½x24"
20½x24"
                              50"
                                      175#
                                            136675
                                                     154500
                                                              30005#
                              50"
                                                     154400
                                            135625
                                                              30005#
                                      175#
                              501/2"
     1-3a
                     20x24"
                                      200#
                                            119400
                                                     137700
                                                             32315#
701
      483
                                  5570
                                          4-1881
                                                                                  7-1906
           I-lb
                   Baldwin
                                                                            Sc.
701
            1-2e
                   P&R
                                          7-1906
                                                                                  3-1927
                                                                                  6-1909
702
      413
            I-la
                   Baldwin
                                  4921
                                          1-1880
            1-2f
702
                   P&R
                                          8-1909
                                                                                  1-1931
      414
            I-la
                                  4932
                                          1-7880
703
                   Baldwin
                                                  P&R*
                                                           12-1904
                                                                     I-3a
                                                                                  3-1934
                                                  P&R*
                                          1-1880
704
      415
            I-la
                   Baldwin
                                  4935
                                                            1-1905
                                                                     1-3a
                                                                                 11-1933
      416
                                  4936
                                                  P&R*
                                                            3-1903
705
                                          1 - 1880
                                                                     I-3a
                                                                                 10-1928
            I-la
                   Baldwin
                                          1-1880
                                                  P&R*
706
      417
            I-la
                   Baldwin
                                  4937
                                                           12-1902
                                                                     1-3a
                                                                                  2-1937
                   Baldwin
707
      419
            I-la
                                  4949
                                          2-1880
                                                                                  8-1906
                                          8-1906
707
            1-2e
                   P&R
                                                                                 10-1926
708
      420
            I-la
                   Baldwin
                                  4952
                                          2-1880
                                                                                  9-1906
708
            1-2e
                   P&R
                                          9-1906
                                                                                  3-1935
      421
                                  4954
                                                                                  3-1934
709
            I-la
                   Baldwin
                                          2-1880
                                                  P&R*
                                                            2-1903
                                                                     1-3a
710
      422
                                  4958
                                          2-1880
                                                  P&R*
                                                                                  5-1933
            I-la
                   Baldwin
                                                           11-1905
                                                                     I-3a
                                          2-1880
711
                                                                                  6-1912
      423
            I-la
                   Baldwin
                                  4962
      424
                                          2-1880
                                                                                 10-1928
            I-la
                   Baldwin
                                  4965
                                                  P&R*
                                                           10-1903
                                                                     1-3a
713
      425
            I-la
                   Baldwin
                                  4969
                                          2-1880
                                                                                 11-1906
                                                                                  7-1934
713
            I-2e
                                         11-1906
                   P&R
      418
                   P&R*
                                          2-1899
714
            I-Id
                                                                                 11-1926
715
                                  4970
                                          2-1880
                                                                     1-3a
      426
            I-la
                   Baldwin
                                                  P&R*
                                                            4-1904
                                                                                 Sold
            Williamsport & North Branch Ry.
                                                 #24
                                                                                  4-1926
716
      428
           I-la
                   Baldwin
                                  4977
                                          2-1880
                                                  P&R*
                                                            4-1903
                                                                     1-3a
                                                                                  4-1934
717
                                          3-1880
                                                                                  8-1909
      429
            I-la
                   Baldwin
                                  4989
                                                                           Sc.
717
            I-2f
                                          8-1909
                                                                                 10-1930
                   P&R
      430
                                  4991
                                                  P&R*
                                                            3-1903
                                                                                  5-1934
718
                                          3-1880
            I-la
                   Baldwin
                                                                    I-3a
                                                                                 11-1906
719
      432
            I-la
                   Baldwin
                                   5001
719
            1-2e
                                         11-1906
                                                                                  1-1936
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P&R

720	496	I-la	Baldwin	5013	3-1880				1.10	1.9
720									1-19	
721	497	I-la	Baldwin	5019	3-1880				2-19	
722	427	I-1d	P&R*		12-1898				6-19	25
723	431	I-Id	P&R*		11-1898				9-19	26
724	498	I-la	Baldwin	5035	4-1880				9-19	
724	120	1-2f	P&R	1011	9-1907					
727	400			5036					8-19	
725 725	499	I-la	Baldwin	5036	4-1880				8-19	
125		1-2f	P&R		12-1909				8-19	33
726	500	I-la	Baldwin	5047	4-1880				12-19	11
727	501	I-la	Baldwin	5050	4-1880	P&R*	11-1902	1-3a	10-19	
728	502	I-la	Baldwin	5065	4-1880	P&R*	3-1903	1-3a		
720									11-19	
729	503	I-la	Baldwin	5075	4-1880	P&R*	5-1903	I-3a	4-19	
730	66	I-le	P&R*		2-1899				11-19	26
731	73	I-le	P&R		2-1899				6-19	25
732	81	I-le	P&R		1-1899				7-19	
733	53	I-1b	Baldwin	5564	3-1881				11-19	
733	11	1-2e		7704						
			P&R	2501	11-1906				1-19	
734	55	1-1b	Baldwin	5581	4-1881				10-19	
734		I-2f	P&R		10-1907				9-19	34
735	62	I-Ib	Baldwin	5552	3-1881				6-19	00
735	-	1-2f	P&R		9-1909	Sold 1	Wmsport	& NI		
736	285	1-1b	Baldwin	5589	4-1881	3010-	w maport	OC 14.	Sc. 9-19	
	200			2209						
736		I-2f	P&R		9-1907				9-19	
737	112	I-1b	Baldwin	5615	5-1881				6-19	09
737		1-2f	P&R		9-1909				9-19	34
738	114	I-lb	Baldwin	5625	5-1881	P&R*	11-1903	1-3a	9-19	
739	115	I-lb	Baldwin	5628	5-1881	P&R*	6-1902	I-3a	12-19	
						Lau.	0-1902	1-Ja		
740	125	I-1b	Baldwin	5632	5-1881				6-19	
740		1-2f	P&R		10-1909				2-19	
741	126	1-1b	Baldwin	5639	5-1881	P&R*	8-1901	I-le	3-192	29
742	110	I-le	P&R*		8-1899				12-19	33
743	127	I-lb	Baldwin	5647	5-1881				10-190	
743	121	1-2e		7047					3-19	
	201		P&R	8.000	10-1906					
744	301	1-1b	Baldwin	5658	6-1881				12-190	
744		1-2e	P&R		12-1906				9-193	
745	302	I-1b	Baldwin	5659	6-1881	P&R*	5-1905	I-3a	3-193	35
746	306	I-1b	Baldwin	5678	6-1881				10-190	
746	200	1-2e	P&R	2010	10-1906				Sc. 11-19	
	200			F (00						
747	308	I-lb	Baldwin	5680	6-1881				10-190	
747		1-2e	P&R		12-1906				10-192	
748	300	I-le	P&R*		1-1899				3-192	29
749	310	1-1b	Baldwin	5699	6-1881				12-190	16
749		1-2f	P&R		12-1906				6-192	
750	347	I-Ib	Baldwin	5710	7-1881				6-190	
	241			2710						
750	200	1-2f	P&R		10-1909				9-192	
751	367	I-Ib	Baldwin	5711	7-1881	P&R*	1-1903	I-3a	2-193	
752	368	1-1b	Baldwin	5716	7-1881				12-190	16
752 752		1-2f	P&R		12-1906				12-192	26
753	369	1-1b	Baldwin	5723	7-1881				9-190	
753	209			1163	9-1907					
177	220	1-2f	P&R						10-192	
754	320	l-le	P&R*		5-1899				7-191	
755	20	I-lb	Baldwin	5744	7-1881				6-191	
756	371	I-1b	Baldwin	5732	7-1881				3-191	11
757	434	I-lb	P&R*		1-1898	P&R*	6-1911	1-le	11-192	
758	447	I-lb	Baldwin	5738	7-1881	P&R*	7-1902	I-3a	11-192	
759						I all	7-1902	1-38		
	504	I-lb	Baldwin	6156	4-1882				6-190	
759		I-2f	P&R		10-1909				2-193	
760	505	1-1b	Baldwin	6154	4-1882	P&R*	5-1902	1-3a	8-192	27
761	507	I-lb	Baldwin	6164	5-1882	P&R*	9-1902	1-3a	1-192	
762	508	I-Ib	Baldwin	6166	4-1882		2 1204	. 704	6-190	
762	700	1-2f	P&R	0100	11-1909				9-193	
	509			6200						
763	209	I-1b	Baldwin	6200	5-1882				9-190	34

763		I-2f	P&R		9-1907					10-1927
	510	I-1b	P&R		5-1897	DOD+	6 1011	1.1.		
764				(212		P&R*	6-1911	I-le		1-1934
765	511	I-1b	Baldwin	6213	5-1882	P&R*	6-1902	I-3a		
766	512	1-1b	Baldwin	6214	5-1882	P&R*	1-1904	1-3a		4-1934
767	515	I-lb	Baldwin	6237	6-1882					1-1907
767		1-2f	P&R		1-1907					2-1931
	516	I-1b		(241		DCD+	0.1003	1.2		2-1931
768			Baldwin	6241	6-1882	P&R*	9-1903	I-3a		9-1928
769	517	I-1b	Baldwin	6242	6-1882	P&R*	8-1905	1-3a		11-1926
770	519	I-lb	Baldwin	6255	6-1882					8-1909
770		1-2f	P&R	00//	12-1909					10-1926
	520			6250						
771	520	I-1b	Baldwin	6259	6-1882					1-1907
771		1-2f	P&R		1-1907					10-1926
772	513	I-le	P&R*		12-1898					1-1927
773	514	I-le	P&R*		12-1898					10-1929
		I-le								
774	518		P&R*		1-1899					9-1924
775	521	I-1b	Baldwin	6274	7-1882					6-1909
775		1-2f	P&R		11-1909					9-1925
776	522	I-1b	Baldwin	6278	7-1882				Sc.	1-1907
	1 holes			0270					SC.	
776		I-2f	P&R		1-1907					1-1930
777	523	1-1b	Baldwin	6295	7-1882					6-1909
777		1-2f	P&R		11-1909					8-1934
778	524	I-Ib	Baldwin	6299	7-1882					1-1907
	744			0299						
778		I-2f	P&R		1-1907					6-1926
779	525	I-1b	Baldwin	6302	7-1882					3-1912
780	526	I-1b	Baldwin	6306	7-1882					12-1905
780	120	1-2f	P&R	0,000	2-1907					10-1935
	F.07			6210	2-1907	2021				
781	527	I-lb	Baldwin	6310	7-1882	P&R*	1-1906	I-3a		12-1926
782	528	I-lb	Baldwin	6309	7-1882					3-1912
783	529	I-Ib	Baldwin	6329	8-1882					6-1909
783	141	1-2f	P&R	0727	12-1909					8-1929
	F20									
784	530	I-lb	Baldwin	6332	8-1882					2-1907
784		1-2f	P&R		2-1907					1-1928
785	362	I-1b	Baldwin	6352	8-1882					2-1907
785	200	1-2f	P&R	0572	2-1907					2-1928
	F21			63.60						
786	531	I-1b	Baldwin	6340	8-1882					2-1907
786		1-2f	P&R		2-1907					2-1926
787	532	I-1b	Baldwin	6341	8-1882		t			8-1909
787	114	1-2f	P&R	0211	12-1909					10-1930
700	0.2			1321						
788	82	1-1b	Baldwin	6356	9-1882					9-1907
788		I-2f	P&R		9-1907					6-1929
783	533	1-1c	Baldwin	6834	7-1883	P&R*	2-1905	1-3a		11-1926
790	534	I-Ic	Baldwin	6833	7-1883		- 1707	1 74		9-1914
				0033						
791	535	I-le	P&R*		11-1898					2-1928
792	536	I-le	P&R*		12-1898					7-1928
793	537	I-Ic	Baldwin	6865	7-1883					9-1914
794	538	I-Ic	Baldwin	6859	7-1883					6-1909
	130			0079						
794		1-2f	P&R		12-1909					4-1925
795	539	I-1c	Baldwin	6872	8-1883					8-1909
795		1-2f	P&R		12-1909					7-1928
796	540	I-Ic	Baldwin	6870	7-1883					6-1909
796	740	1-2f		0070						
			P&R		1-1910					10-1935
797	541	1-1c	Baldwin	6877	8-1883					2-1907
797		1-2f	P&R		2-1907					8-1934
798	542	I-1c	Baldwin	6881	8-1883					3-1907
	172	I-2f		1000						
798	0.50		P&R		3-1907					10-1926
799	857	I-le	P&R*		12-1898					4-1924
800	858	1-1c	Baldwin	6976	10-1883					3-1907
800		I-2f	P&R	0210	3-1907					10-1929
	OFO			6003						
801	859	I-lc	Baldwin	6993	10-1883				-	10-1912
802	860	I-1c	Baldwin	6999	10-1883				Sc.	6-1909
802		1-2f	P&R		1-1910					10-1926

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803
       861
             I-1c
                      Baldwin
                                   7027
                                            11-1883
                                                       P&R*
                                                                7-1903 I-3a
                                                                                        9-1930
804
             I-1c
                                   7076
                                            12-1883
                                                                                        3-1907
       863
                      Baldwin
804
             1-2f
                      P&R
                                              3-1907
                                                                                       10-1940
805
       864
             I-Ic
                      Baldwin
                                   7078
                                            12-1883
                                                                                        3-1907
805
             1-2f
                      P&R
                                              3-1907
                                                                                        9-1925
806
       865
             I-1c
                      Baldwin
                                   7109
                                              1-1884
                                                                                        5-1916
807
       866
             I-1c
                      Baldwin
                                   7113
                                              1-1884
                                                                                        4-1907
807
             1-2f
                                                                                        9-1926
                      P&R
                                              4-1907
             I-Ic
       867
                                              1-1884
808
                      Baldwin
                                   7141
                                                                                        4-1912
809
       868
             I-le
                      P&R*
                                            12-1898
                                                                                       12-1933
       869
                                   7163
                                             2-1884
2-1884
                                                                                        9-1914
810
             I-1c
                      Baldwin
             I-lc
                                                                                        2-1913
811
       870
                      Baldwin
                                   7174
812
       871
                      P&R*
                                            10-1899
                                                                                        3-1934
             I-le
813
             I-lc
                                   7183
                                                                                        2-1915
       872
                      Baldwin
                                             2-1884
814
       873
             I-lc
                      Baldwin
                                   7185
                                             2-1884
                                                      P&R* 12-1902 I-3a
                                                                                        1-1926
                                              2-1884
             I-1c
815
       874
                      Baldwin
                                   7188
                                                                                       10-1907
815
             1-2f
                      P&R
                                            10-1907
                                                      Sold—Wmsport, & N.Br. #25, 1934
7-1912
816
       875
             I-lc
                                   7194
                                             2-1884
                      Baldwin
817
       876
             I-le
                      P&R*
                                              1-1895
                                                                                       12-1929
                      Baldwin
                                                      P&R*
                                                                3-1902 I-3a
818
       877
             I-1c
                                   7207
                                              3-1884
                                                                                        3-1929
819
       878
             I-le
                      P&R*
                                             8-1897
                                                                                       11-1933
                      P&R*
820
       879
             I-le
                                            11-1899
                                                                                       10-1920
821
       880
             1-1c
                      Baldwin
                                   7218
                                              3-1884
                                                                                        6-1909
822
       881
             1-1c
                      Baldwin
                                   7227
                                              3-1884
                                                                                        9-1912
823
       882
                                   7232
                                              3-1884
                                                      P&R*
                                                               11-1904
             I-Ic
                      Baldwin
                                                                        I-3a
                                                                                        2-1934
824
                                                                                        9-1923
       883
             I-le
                      P&R*
                                              5-1899
825
       884
             1-1c
                      Baldwin
                                   7246
                                             4-1884
                                                                                       10-1907
825
             1-2f
                      P&R
                                            10-1907
                                                                                       12-1925
826
             I-Ic
                                             4-1884
5-1907
       885
                      Baldwin
                                   7250
                                                                                        5-1907
826
             1-2f
                      P&R
                                                                                        9-1925
827
       886
             I-1c
                      Baldwin
                                   7253
                                             4-1884
                                                                                        8-1909
827
             I-2f
                      P&R
                                            12-1909
                                                                                        6-1927
828
       887
             I-le
                      P&R*
                                            10-1899
                                                                                       12-1925
829
             I-Ic
                      Baldwin
                                                                                        8-1909
       888
                                   7271
                                             4-1884
829
             1-2f
                      P&R
                                            12-1909
                                                                                        5-1929
830
       889
                                   7284
             1-1c
                     Baldwin
                                             4-1884
                                                                                        3-1912
831
       890
                     P&R*
             I-le
                                              1-1899
                                                                                        1-1934
832
       891
             I-1c
                     Baldwin
                                   7292
                                             5-1884
                                                                                        4-1907
832
             I-2f
                     P&R
                                             4-1907
                                                                                       10-1925
       905
                                                                                        5-1907
2-1929
833
             I-Ic
                     Baldwin
                                   8011
                                             6-1886
                                             5-1907
833
             1-2f
                     P&R
                                                                                 Sc.
834
       906
             I-lc
                     Baldwin
                                   8012
                                             6-1886
                                                                                       10-1912
835
       907
             I-Ic
                     Baldwin
                                   8016
                                             7-1886
                                                                                       6-1909
836
       908
             I-Ic
                     Baldwin
                                   8020
                                             7-1886
                                                                                       9-1926
837
       909
             I-Ic
                     Baldwin
                                   8025
                                             7-1886
                                                                                       10-1907
             I-2f
                                            10-1907
837
                     P&R
                                                                                       2-1937
             1-2a(W)
                           20x24"
                                     501/2"
                                             145#
                                                    104500
                                                             120000
                                                                       24235#
                                             145#
             I-2b(W)
I-2c(W)
                           20x24"
                                     501/2"
                                                    104500
                                                                       24235#
                                                             120000
                           20x24"
                                     501/2"
                                             145#
145#
                                                             121700
121700
                                                    105500
                                                                       24235#
             1-2d
                           20x24"
                                     501/2"
                                                    105500
                                                                       24235#
                                     50"
             1-2f(W)
                         20½x24"
                                             175#
                                                    135625
                                                             154400
                                                                       30005#
838
       910
             I-2a
                     Baldwin
                                   9003
                                             1-1888
                                                                                 Sc.
                                                                                      10-1915
839
       912
             1-2a
1-2a
                                   8977
                                            12-1887
                                                                                       7-1916
                     Baldwin
840
       913
                     Baldwin
                                   8978
                                            12-1887
                                                                                       3-1914
             1-2a
                                             1-1888
841
       914
                     Baldwin
                                   8988
                                                                                       5-1917
             1-2a
       915
842
                     Baldwin
                                   8989
                                             1-1888
                                                                                       2-1917
            I-2b
I-2a
843
       911
                     P&R*
                                             6-1899
                                                                                       6-1925
       916
844
                                   9010
                                                                                       8-1922
                     Baldwin
                                             1-1888
       917
845
             1-2a
                                             1-1888
                                                                                       8-1914
                     Baldwin
                                   9008
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4-1916
       918
             I-2a
                     Baldwin
                                  9031
                                             1-1888
846
            I-2a
I-2a
                                                                                       8-1921
       919
                                   9032
                                             1-1888
847
                     Baldwin
                                                                                      12-1913
848
       920
                     Baldwin
                                   9047
                                             2-1888
             I-2a
I-2a
849
       921
                                   9048
                                             2-1888
                                                                                       7-1924
                     Baldwin
       922
                                             2-1888
                                   9070
                                                                                       4-1916
850
                     Baldwin
             I-2a
851
       923
                     Baldwin
                                  9071
                                             2-1888
                                                                                       2-1916
       924
             I-2a
                                  9076
                                             2-1888
                                                                                       2-1930
852
                     Baldwin
            I-2a
I-2a
853
       925
                                  9085
                                             2-1888
                                                                                       4-1916
                     Baldwin
       927
                                   9098
                                             3-1888
                                                                                      11-1915
854
                     Baldwin
             I-2a
I-2a
I-2a
I-2a
I-2a
855
       928
                     Baldwin
                                   9099
                                             3-1888
                                                                                       9-1912
       929
                                   9105
                                             3-1888
                                                                                       9-1915
856
                     Baldwin
                                                                                       2-1917
       930
                                  9113
                                             3-1888
857
                     Baldwin
858
       931
                                  9118
                                             3-1888
                                                                                      10-1924
                     Baldwin
859
       932
             I-2a
                                  9131
                                             3-1888
                                                                                       2-1916
                     Baldwin
            I-2a
I-2a
860
       935
                     Baldwin
                                  9385
                                             8-1888
                                                                                       2-1917
       936
                                                                                      10-1907
861
                     Baldwin
                                  9382
                                             7-1888
861
             I-2f
                     P&R
                                            10-1907
                                                                                      11-1929
             I-2a
I-2a
I-2a
I-2a
       937
                                  9386
                                             8-1888
                                                                                      2-1927
11-1914
862
                     Baldwin
       938
863
                     Baldwin
                                  9420
                                             8-1888
       939
864
                     Baldwin
                                  9421
                                             8-1888
                                                                                       1-1926
             I-2a
I-2a
       940
                                                                                       6-1913
865
                     Baldwin
                                  9422
                                             8-1888
       941
                                  9425
                                             8-1888
                                                                                       9-1920
866
                     Baldwin
            1-2a
       942
867
                                  9426
                                             8-1888
                                                                                 Sc.
                                                                                       8-1917
                     Baldwin
868
       943
             I-2a
                     Baldwin
                                  9429
                                             8-1888
                                                      Sold-1923 to Harleigh & Brook-
                                                      wood Coal Co.
869
       944
             1-2b
                                             8-1894
                                                                                       5-1916
                     P&R*
870
       945
             1-2b
                     Baldwin
                                  9424
                                             8-1888
                                                                                       7-1916
       946
             1-2b
871
                                             2-1895
                                                                                      10-1915
                     P&R*
       947
             I-2b
I-2b
                     P&R*
                                                                                       1-1927
872
                                             7-1894
873
                     P&R*
                                                                                       5-1918
       948
                                             5-1894
             1-2b
                     P&R*
874
       949
                                            10-1895
                                                                                       7-1923
            1-2b
1-2c
1-2c
1-2c
1-2c
                                                                                       6-1925
875
       950
                     P&R*
                                             1-1896
876
       579
                                 10820
                                             4-1890
                                                                                       9-1927
                     Baldwin
877
       580
                     Baldwin
                                 10821
                                             4-1890
                                                                                       8-1917
       581
878
                                  10816
                                                                                       5-1918
                     Baldwin
                                             4-1890
879
       582
                                                                                       2-1907
                     Baldwin
                                 10817
                                             4-1890
879
             1-2f
                                                                                       8-1929
                                             2-1907
                     P&R
       583
             1-2c
880
                     Baldwin
                                 10822
                                             4-1890
                                                                                       5-1923
            1-2c
1-2c
1-2c
1-2c
                                             4-1890
                                                                                      11-1914
881
       584
                                 10823
                     Baldwin
882
       586
                                 10824
                                             4-1890
                                                                                      12-1915
                     Baldwin
883
       587
                     Baldwin
                                 10829
                                             4-1890
                                                                                       4-1921
884
       926
             I-2b
                     P&R*
                                             6-1892
                                                                                       3-1912
             I-2c
I-2d
                                  10899
885
       585
                     Baldwin
                                             5-1890
                                                                                       1-1928
                                             3-1888P&R*
       935
886
                     Baldwin
                                  9135
                                                            12-1904 I-3a
                                                                                      11-1926
             1-2d
                                             7-1888
887
       934
                     Baldwin
                                   9379
                                                                                       2-1917
             I-4a(W) 14&24x26" 55½"
I-4b(W) 14&24x26" 55½"
                                             175# 127000
175# 127000
                                                                      22515#
                                                             146000
                                                                      22515#
                                                             146000
             1-4d(W)
                           22x26"
                                    551/2"
                                            175# 130800
                                                             147400 33725#
                                12999
                                            10-1892
888
       634
            1-4a
                     Baldwin
                                                      P&R*
                                                                 6-1903
                                                                          Re. 1423
                                                                                     12-1917
889
       635
             1-4a
                     Baldwin
                                 13000
                                            10-1892
                                                      P&R*
                                                                 6-1902
                                                                               1412
                                                                                      12-1916
                                            10-1892
                                 13007
                                                      P&R*
                                                                12-1902
                                                                               1413
                                                                                      12-1916
11-1916
890
       636
             1-4a
                     Baldwin
                                            10-1892
                                                      P&R*
891
       637
             I-4a
                     Baldwin
                                 13008
                                                                 9-1903
                                                                               1411
            1-4a
                                                                                       8-1917
      638
                                 13012
                                            11-1892
                                                      P&R*
                                                                 3-1904
892
                     Baldwin
                                                                               1421
                                                      P&R*
                                                                                       5-1922
                                                                               1429
                                 13019
                                            11-1892
                                                                10-1904
893
       639
             I-4a
                     Baldwin
                                 13028
                                            11-1892
                                                      P&R*
                                                                 7-1902
                                                                               1416
                                                                                       5-1917
894
       640
            I-4a
                     Baldwin
895
            1-4a
                                 13023
                                            11-1892
                                                      P&R*
                                                                11-1902
                                                                                      12-1916
                                                                               1415
       641
                     Baldwin
896
      642
            I-4a
                                 13029
                                            11-1892
                                                      P&R*
                                                                 9-1902
                                                                               1410
                                                                                       7-1916
                     Baldwin
                                           11-1892
                                                                11-1902
897
      643
                                 13032
                                                      P&R*
                                                                               1414
                                                                                      12-1916
            1-4a
                     Baldwin
                                                                                       6-1917
898
      644
            1-4b
                     Baldwin
                                 13069
                                            12-1892
                                                      P&R*
                                                                 4-1902
                                                                               1417
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6

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899	645	I-4b	Baldwin	13070	12-1892	P&R*	4-1903		11-1917
900	646	1-46	Baldwin	13088	12-1892	P&R*	12-1904		6-1917
901	647	I-4b	Baldwin	13098	12-1892	P&R*	10-1904		7-1922
902	648	I-4b	Baldwin	13107	12-1892	P&R*	8-1904	1424	3-1921
903	649	I-4b	Baldwin	13127	12-1892	P&R*	2-1905	Re 1419	7-1917
904	650	I-4b	Baldwin	13125	12-1892	P&R*	11-1903	I-4d Sc.	2-1937
905	651	I-4b	Baldwin	13126	12-1892	P&R*	10-1904	I-4d	12-1933
906	652	1-4b	Baldwin	13143	1-1893	P&R*	8-1904	Re 1425	6-1921
907	653	I-4b	Baldwin	13144	1-1893	P&R*	11-1903	1420	7-1917
908	654	I-4b	Baldwin	13161	1-1893	P&R*	5-1903	I-4d Sc	3-1935
909	655	I-4b	Baldwin	13162	1-1893	P&R*	6-1902	1-4d	6-1936
910	656	I-4b	Baldwin	13185	1-1893	P&R*	5-1903	I-4d	
911	657	I-4b	Baldwin	13178	1-1893	P&R*	1-1903	Re 1437	10-1922
912	658	I-4b	Baldwin	13184	1-1893	P&R*	8-1904		2-1937
913	659	I-4b	Baldwin	13192	1-1893	P&R*	9-1904	1-4d	10-1935
914	660	1-4b	Baldwin	13199	2-1893	P&R*	2-1903	I-4d	4-1934
915	661	1-4b	Baldwin	13200	2-1893	P&R*	10-1904	Re —	12-1921
916	662	I-4b	Baldwin	13202	2-1893	P&R*	3 ,903	I-4d Sc	10-1940
917	663	1-4b	Baldwin	13203	2-1893	P&R*	7-1903	1-4d	
918	664	1-4b	Baldwin	13204	2-1893	P&R*	10-1903	I-4d Sc	2-1937
919	665	I-4b	Baldwin	13230	2-1893	P&R*	3-1905	1-4d	10-1940
920	666	I-4b	Baldwin	13229	2-1893	P&R*	9-1902	1-4d	11-1934
921	667	I-4b	Baldwin	13234	2-1893	P&R*	10-1902	Re 1434	8-1922
922	668	1-4b	Baldwin	13243	2-1893	P&R*	4-1904	I-4d	
923	669	1-4b	Baldwin	13301	3-1893	P&R*	8-1903	I-4d Sc	10-1935
924	670	1-4b	Baldwin	13302	3-1893	P&R*	11-1904	Re 1431	5-1922
925	671	I-4b	Baldwin	13312	. 3-1893	P&R*	10-1903	I-4d Sc	11-1933
926	672	I-4b	Baldwin	13317	3-1893	P&R*	11-1904	Re 1436	7-1922
927	673	I-4b	Baldwin	13307	3-1893	P&R*	10-1903	I-4d Sc	
928	675	1-4b	Baldwin	13330	3-1893	P&R*	12-1904	I-4d	2-1937
929	676	I-4b	Baldwin	13342	4-1893	P&R*	9-1904	I-4d	11-1932
930	677	I-4b	Baldwin	13345	4-1893	P&R*	10-1902	Re 1426	7-1921
931	678 -	I-4b	Baldwin	13346	4-1893	P&R*	9-1903	I-4d Sc.	3-1935
932	674	I-4b	Baldwin	13329	3-1893	P&R*	9-1904	I-id	2-1937
933	365	1-4b	Baldwin	15039	9-1896	P&R*	11-1902	I-4d	3-1935
934	459	1-4b	Baldwin	15040	9-1896	P&R*	7-1904	I-4d	2-1937
935	467	I-4b	Baldwin	15041	9-1896	P&R*	9-1902	I-4d	3-1935
936	472	I-4b	Baldwin	15042	9-1896	P&R*		Re 1428	2-1922
937	495	I-4b	Baldwin	15043	9-1896	P&R*	5-1905	1432	5-1922
	A 11 a	lace I	to and I th	logomoti		mahile	to class I	Ad Ionomot	

All class I-4a and I-4b locomotives were rebuilt to class I-4d locomotives on the dates shown. Those that were renumbered in the 1400 series and rebuilt to eight wheel switchers are indicated and the date is the date of rebuilding and renumbering.

	First	I-5a I-5b I-5c I-6a	22x28" 22x28" 22x28" 14&24x26"	50½" 50½" 50½" 50½" All	145# 131 175# 136	600 14 600 15 000 14	7300 33075# 6700 33075# 1000 39920# 9000 —		
938	588	1-5b	Baldwin	10808	4-1890	P&R*	10-1912	Sc.	8-1934
939	589	I-5b	Baldwin	10810	4-1890	P&R*	7-1913		
940	590	1-5b	Baldwin	10809	4-1890	P&R*	10-1906		2-1937
941	592	1-5b	Baldwin	10813	4-1890	P&R*	8-1915		9-1934
942	591	1-5b	Baldwin	10826	4-1890	P&R*	8-1917		2-1937
943	593	I-5b	Baldwin	10827	4-1890				7-1914
944	954	1-5a	P&R*		7-1891				6-1936
945	955	1-5a	P&R*		2-1892				2-1937
946	952	I-5a	P&R*		3-1892				
947	953	I-5a	P&R*		3-1892				3-1935
948	951	1-5a	Baldwin*		3-1892				3-1935



-Courtesy of C. E. Fisher.

Reading #963-1-7a, Baldwin, 1898, at Camden, N. J.



Reading #1149-A-5a, Reading Shops, 1913, at Reading, Pa.

949 950 951 952 953 954 955 956 957 958 959 960	956 598 590 600 601 602 603 604 605 606 607 183	I-5a I-6a I-6a I-6a I-6a I-6a I-6a I-6a I-6	P&R* Baldwin	12351 12354 12359 12364 12365 12366 12368 12369 12373 12374 12725	5-1892 12-1891 12-1891 12-1891 12-1891 12-1891 12-1891 12-1891 12-1891 6-1892	P&R* 8-1903 1-5c P&R* 10-1902 1-5c P&R* 1-1903 1-5c P&R* 5-1903 1-5c P&R* 8-1903 1-5c P&R* 3-1904 1-5c P&R* 10-1903 1-5c P&R* 1-1903 1-5c P&R* 9-1903 1-5c P&R* 1-1904 1-5c P&R* 6-1904 1-5c	10-1940 6-1936 10-1940 10-1940 4-1928 7-1934 2-1937 11-1933 12-1934 6-1936 5-1941 6-1934
Sec	cond	I-6a I-7a I-7b I-7c I-7d I-7j I-7k I-7l I-7m	22x28" 22x28; 22x28" 22x28" 22x28" 21x28" 21x28" 21x28" 21x28"	55½" 56" 56" 56" 55½" 55½" 55½"	180# 145 180# 145 200# 145 200# 152 200# 152 200# 144 200# 145	225 188225 38400# 000 163000 37025# 000 165000 37025# 000 166000 41140# 000 166000 41140# 650 167300 37850# 150 166000, 37850# 150 166000, 37850# 150 166000, 37850# 150 166000, 37850#	
961 962 963 964 965 966	11 37 102 124 133 136	I-7a I-7a I-7a I-7a I-7a I-7a	Baldwin Baldwin Baldwin Baldwin Baldwin	16414 16415 16416 16417 16418 16419	12-1898 12-1898 12-1898 12-1898 12-1898 12-1898	Sold—Ironton R. R. #30, Sc. P&R* 4-1905 I-7; P&R* 5-1905 I-7;	2-1923 3-1934 11-1928 3-1934 10-1928 4-1934
967 968 969 970 971 972 973	173 188 192 212 217 249 254	I-7a I-7a I-7a I-7a I-7a I-7a	Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin	16420 16421 16422 16423 16500 16501	12-1898 12-1898 12-1898 12-1898 2-1899 2-1899	Sold—Ironton R. R. #33, Sc.	12-1934 9-1923 3-1935 10-1928 3-1934
973 974 975 976 977 978	274 278 317 340 343	I-7a I-7a I-7a I-7a I-7a I-7a I-7a	Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin	16502 16503 16504 16505 16506 16507	2-1899 2-1899 2-1899 2-1899 2-1899 2-1899	Sold—Ironton R. R. #32, Sold—Ironton R. R. #31, Sc. P&R* 4-1905 I-7; BLW* 4-1905 I-6a	7-1923 4-1923 2-1934 4-1934 10-1935
979 980 981 982 983	344 360 —	I-7a I-7a I-7c I-7c I-7c	Baldwin Baldwin Baldwin Baldwin Baldwin	16508 16509 18135 18136 18141	2-1899 2-1899 9-1900 9-1900	Renumbered 1101 P&R* 4-1905 I-7; Sold—Ironton R. R. #34, P&R* 6-1905 I-71 P&R* 12-1905 I-71 P&R* 7-1905 I-71	2-1906 4-1929 3-1924 6-1936 7-1934
984 985 986 987 988 989		I-7c I-7c I-7c I-7c I-7c I-7c	Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin	18142 18143 18144 18175 18176 18259	9-1900 9-1900 9-1900 9-1900 9-1900 10-1900	P&R*     10-1905     1-71       P&R*     8-1906     1-71       P&R*     3-1905     1-71       P&R*     12-1905     1-71       P&R*     8-1905     1-71       P&R*     6-1905     1-71	6-1926 3-1935 7-1934 2-1937 7-1934
990 991 992 993 994 995	6 75 83 84 107	I-7c I-7b I-7b I-7b I-7b I-7b	Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin	18260 17096 17097 17098 17099 17100	10-1900 10-1899 10-1899 10-1899 10-1899	P&R* 10-1905 1-71  P&R* 3-1905 1-7k  P&R* 3-1905 1-7k	3-1935 8-1927 1-1928 12-1926 4-1934
995 996	122	I-7k I-7b	Baldwin	17101	10-1899	P&R* 3-1907 1-7b BLW* 4-1905 1-6a Renumbered 1102	3-1935 2-1906

997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012	128 I-7b 137 I-7b 146 I-7b 154 I-7b 189 I-7b 189 I-7b 193 I-7b 197 I-7b 198 I-7b 200 I-7b 202 I-7b 208 I-7b 228 I-7b 245 I-7b	Baldwin	17144 17145 17146 17147 17148 17149 17150 17151 17152 17153 17154 17155 17156 17334 17335 17336	10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 10-1899 1-1900 1-1900		4-1905 nbered 1		Sc.	4-1934 2-1937 12-1928 3-1935 9-1933 8-1926 4-1934 4-1934 9-1933 10-1926 10-1935 9-1933 11-1933 2-1933
1014 1015 1016 1017 1018 1019 1020	296 I-7b 311 I-7b 387 I-7b 397 I-7b 488 I-7b 543 I-7b 862 I-7b W&N #15 U	Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin Baldwin	17338 17348 17349 17350 17351 17352 17380	1-1900 1-1900 1-1900 1-1900 1-1900 1-1900 1-1900	P&R*	3-1905 20x24 : 50	I-7k	400 Sc	6-1936 1-1929 2-1937 4-1934 1-1927 3-1935 10-1940
1022	W&N #10 L	Incl. P&R*	_	2-1899	2-8-0	22x28" 50	)" 154.	250	2-1927
1023 1024 1025 1026	1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin	18671 18672 18688 18689	2-1901 2-1901 2-1901 2-1901	P&R* P&R* P&R* P&R*	5-1905 2-1906 1-1906 6-1905	I-71 I-71 I-71 I-71	Sc.	3-1935
1027 1028 1029 1030	I-7c I-7c I-7c I-7c	Baldwin Baldwin Baldwin Baldwin	18690 18691 18728 18729	2-1901 2-1901 3-1901 3-1901	P&R* P&R* P&R* P&R*	5-1905 8-1905 4-1905 12-1905	I-71 I-71 I-71 I-71		8-1926 6-1934 7-1934
1031 1032 1033 1034	1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin	18768 18769 18813 18814	3-1901 3-1901 3-1901 3-1901	P&R* P&R* P&R* P&R*	7-1906 8-1905 9-1905 5-1905	I-71 I-71 I-71 I-71		12-1926 10-1935 3-1935 6-1935
1035 1036 1037 1038 1039	1-7c 1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin Baldwin	18840 18841 18842 18843 18852	3-1901 3-1901 3-1901 3-1901 3-1901	P&R* P&R* P&R* P&R* BLW*	9-1905 6-1905 2-1906 7-1905 3-1905	I-71 I-71 I-71 I-71	Re 11	7-1934 2-1937 12-1936 10-1940
1040 1041 1042 1043	1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin	18853 18788 18789 18838	3-1901 3-1901 3-1901 3-1901	2-1906 P&R* P&R* P&R* P&R*	8-1905 5-1905 11-1905 3-1906	I-71 I-71 I-71 I-71		4-1926 8-1934 3-1935
1044 1045 1046 1047 1048	1-7c 1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin Baldwin	19139 19140 19141 19142 19143	6-1901 6-1901 6-1901 6-1901 6-1901	P&R* P&R* P&R* P&R* P&R*	12-1905 3-1905 3-1905 10-1905 5-1905	I-71 I-71 I-71 I-71 I-71	Sc.	9-T926 10-1940 10-1940
1049 1050 1051 1052	1-7c 1-7c 1-7c 1-7c	Baldwin Baldwin Baldwin Baldwin	19177 19178 19216 19217	6-1901 7-1901 7-1901 7-1901	P&R* P&R* P&R* P&R*	5-1905 4-1905 4-1905 11-1905	i-7i i-7i i-7i i-7i i-7i		10-1935 8-1926 11-1926 2-1937

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I-7c
I-7c
I-7c
                                  19239
                                             7-1901
                                                              12-1905
                                                                        1-71
1-71
                                                                                      3-1935
1053
                      Baldwin
                                                      P&R*
                                                              11-1905
                                  19240
                                             7-1901
                                                      P&R*
                                                                                      2-1937
1054
                      Baldwin
                                                      BLW*
1055
                                  19295
                                             7-1901
                                                               4-1905
                      Baldwin
                                                                        1-6b
                                                                              Re. 1109.
                                                      2-1906
1056
              1-7c
                      Baldwin
                                  19296
                                             7-1901
                                                      P&R*
                                                                5-1905
                                                                        1-71
1057
              1-7c
                      Baldwin
                                  19297
                                             7-1901
                                                      P&R
                                                              4-1905
                                                                      1-71
1058
              1-7c
                                  19241
                                             7-1901
                                                      BLW*
                                                               3-1905
                                                                              Re. 1110.
                      Baldwin
                                                                        I-6b
                                                      3-1906
             I-7c
I-7c
I-7c
                                             7-1901
1059
                      Baldwin
                                  19242
                                                      P&R*
                                                                3-1905
                                             7-1901
                                                      P&R*
                                                                        I-71
I-71
1060
                      Baldwin
                                 19265
                                                                5-1905
                                                                                     10-1940
                                             7-1901
                                  19266
                                                      P&R*
                                                                                      8-1936
1061
                      Baldwin
                                                              11-1905
                                                                        I-71
I-71
             1-7c
1-7c
                                             7-1901
7-1901
1062
                      Baldwin
                                  19267
                                                      P&R*
                                                              12-1905
                                                                                      3-1935
                                  19268
                                                      P&R*
                                                              10-1905
1063
                      Baldwin
              1-7c
                      Baldwin
                                  19269
                                             7-1901
                                                      P&R*
                                                               3-1906
                                                                        1-71
1064
                                  19305
                                             8-1901
                                                      P&R*
                                                              11-1905
                                                                        I-71
I-71
I-71
I-71
                                                                                     10-1940
1065
              1-7c
                     Baldwin
1066
             I-7c
I-7c
                      Baldwin
                                  19306
                                             8-1901
                                                      P&R*
                                                              10-1905
                                  19307
                                             8-1901
                                                               1-1906
1067
                     Baldwin
                                                      P&R*
                                                                                      5-1934
                                                      P&R*
                                                               2-1906
1068
              1-7c
                      Baldwin
                                  19323
                                             8-1901
             I-7c
I-7c
1069
                      Baldwin
                                  19324
                                             8-1901
                                                      P&R*
                                                               3-1905
                                                                        I-71
I-71
                                                                                      8-1926
                                  19325
                                             8-1901
                                                              10-1906
                                                      P&R*
1070
                      Baldwin
                                                      P&R*
1071
             1-7c
                   Baldwin
                                  19326
                                             8-1901
                                                               3-1905
                                                                       1-71
                                                                                      8-1929
             I-7c
I-7d
I-7d
                                                      P&R*
                                                               4-1905
1072
                     Baldwin
                                  19327
                                             8-1901
                                                                                      3-1935
                                                                        1-71
                                                              12-1905
2-1906
                                                                        I-7m
I-7m
1073
                      Baldwin
                                  21056
                                            10-1902
                                                      P&R*
                                                                                     10-1935
1074
                                  21057
                                            10-1902
                                                      P&R*
                                                                                      8-1934
                     Baldwin
                                            10-1902
1075
             1-7d
                      Baldwin
                                  21058
                                                      P&R*
                                                               8-1905
                                                                        1-7m
                                                                        I-7m
I-7m
I-7m
             I-7d
I-7d
                                            10-1902
                                                               2-1906
7-1906
                                                                                      8-1934
1076
                      Baldwin
                                  21059
                                                      P&R*
                                  21148
                                            10-1902
1077
                      Baldwin
                                                      P&R*
                                                                                      3-1935
1078
             1-7d
                      Baldwin
                                  21149
                                            10-1902
                                                      P&R*
                                                               9-1905
                                                      P&R*
                                                                                     11-1933
1079
                     Baldwin
                                  21162
                                            10-1902
                                                              12-1905
             1-7d
                                                                        I-7m
             I-7d
I-7d
I-7d
                                  21163
                                            10-1902
                                                                        I-7m
I-7m
1080
                      Baldwin
                                                      P&R*
                                                               5-1905
                                                                                      7-1936
1081
                     Baldwin
                                  21174
                                            10-1902
                                                      P&R*
                                                               6-1906
                                                                                      7-1934
1082
                                  21209
                                            11-1902
                                                      P&R*
                                                               2-1906
                      Baldwin
                                                                        1-7m
                                                                                     12-1926
1083
             I-7d
I-7d
                      Baldwin
                                  21837
                                             3-1903
                                                      P&R*
                                                              10-1906
                                                                        I-7m
I-7m
                                             3-1903
1084
                     Baldwin
                                 21871
                                                      P&R*
                                                               3-1905
                                                                                      3-1935
1085
              1-7d
                     Baldwin
                                  21888
                                             3-1903
                                                      P&R*
                                                               3-1905
                                                                        1-7m
                                                                                      3-1935
                                  21907
                                                      P&R*
                                                                                     11-1934
1086
             1-7d
                                             4-1903
                                                               6-1906
                     Baldwin
                                                                        1-7m
             I-7d
I-7d
1087
                                  22010
                                             4-1903
                                                      P&R*
                                                               8-1905
                                                                                      8-1934
                     Baldwin
                                                                        1-7m
                                 22017
                                             4-1903
1088
                     Baldwin
                                                      P&R*
                                                              4-1905
                                                                      I-7m
                                                                                Sc.
                                                                                      7-1926
                                                              10-1905
1089
             1-7d
                                 22034
                                             4-1903
                                                      P&R*
                                                                        1-7m
                                                                                     10-1926
                     Baldwin
                                             4-1903
                                                               4-1905
1090
             I-7d
I-7d
                                  22042
                                                      P&R*
                                                                                      9-1926
                     Baldwin
                                                                        1-7m
                                  22085
1091
                      Baldwin
                                             4-1903
                                                      P&R*
                                                               8-1905
                                                                        1-7m
                                                                        1-7m
1092
             1-7d
                     Baldwin
                                  22086
                                             5-1903
                                                      P&R*
                                                               8-1906
                                  22128
                                             5-1903
                                                      P&R*
1093
             1-7d
                                                              11-1905
                                                                                     10-1935
                     Baldwin
                                                                        1-7m
1094
             I-7d
I-7d
                      Baldwin
                                  22129
                                             5-1903
                                                      P&R*
                                                              11-1905
                                                                        I-7m
I-7m
                                             5-1903
                                                      P&R*
1095
                                 22137
                                                               4-1905
                     Baldwin
1096
             1-7d
                                 22160
                                             5-1903
                                                      P&R*
                                                               3-1906
                                                                        1-7m
                                                                                     10-1935
                      Baldwin
             1-7d
                                 22176
                                                     P&R*
                                                                                     10-1926
1097
                                             5-1903
                                                               5-1905
                      Baldwin
                                                                        1-7m
    Second 1-6a
                         22x28"
                                  551/2"
                                           185# 169225
                                                          188225
                                                                   38400#
              1-6b
                          22x28"
                                  551/2"
                                           185#
                                                 171475
                                                          183975
                                                                    38400#
                                  55"
                         22x28"
             1-6c&d
                                                 177725
                                                          202400
                                                                   39795#
                                           190#
                                     All wide firebox
1101
       978
             I-6a
                     Baldwin*
                                             4-1905
                                                                                Sc.
                                                                                    10-1935
       996
                                             4-1905
                                                                                      3-1935
1102
             1-6a
                     Baldwin*
             I-6a
                     Baldwin*
                                             4-1905
                                                                                     10-1940
1103
      1013
                                                                                      3-1935
                     Baldwin*
                                             3-1905
1108
      1039
             1-6b
                                                                                     10-1935
1109
      1055
             1-6b
                     Baldwin*
                                             4-1905
                                                                                      2-1937
                     Baldwin*
                                             3-1905
1110
      1058
             1-6b
      I-6c BLW 29875  1-1907 Sc. 3-1935  1119  I-6c BLW 29963  1-1907 Sc. 5-1941
1111
                                                     I-6c BLW 29972 1-1907
      I-6c BLW 29876 1-1907
                                     5-1941
                                             1120
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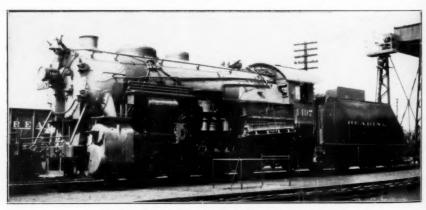
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1113 1114 1115 1116 1117 1118	1-6c BLW 29877 1-1907 5-1941 1121 1-6c BLW 30008 1-1907 3-191-6c BLW 29878 1-1907 5-1941 1122 1-6c BLW 30009 1-1907 6-191-6c BLW 29879 1-1907 1123 1-6c BLW 30030 1-1907 5-191-6c BLW 29940 1-1907 5-1936 1124 1-6c BLW 30030 1-1907 5-191-6c BLW 29941 1-1907 10-1940 1125 1-6c BLW 30155 2-1907 6-191-6c BLW 29962 1-1907 3-1935 All 1-6c engines altered to 1-6d, 1921-1924.	936 941 941
	2100	
1126 1127 1128 1129	J-lsa(W) 25x28" 52" 180# 183500 208400 51490# USA 1101 Baldwin 47366 12-1917 Sc. 3-1935 1102 Baldwin 47367 12-1917 3-1935 1103 Baldwin 47368 12-1917 3-1935 1162 Baldwin 48016 3-1918 3-1935	
	040	
	A-5a(W) 18x24" 50" 185# 110450 110450 24455#	
1147- 1151- 1156-1	1155 P&R 4-1912 1162-1164 P&R 2-19	10
	1168 Baldwin 30288-300 2-1907 1175 Baldwin 30723 4-19	007 007 007
	A-4a(W) 16x24" 44" 200# 98200 98200 23740# A-4b(W) 16x24" 50" 200# 104800 104800 20890# All built by Balawin	
1187 1188 1189 1190 1191 1192 1193	A-4a 21841 3-1903 A-4b 10-1906 1194 A-4a 21913 4-1903 A-4b 11-19 A-4a 21841 3-1903 A-4b 1-1906 1195 A-4a 21934 4-1903 A-4b 5-19 A-4a 21878 3-1903 A-4b 10-1906 1196 A-4a 22136 5-1903 A-4b 11-19 A-4a 21880 3-1903 A-4b 12-1906 1197 A-4a 20437 5-1902 A-4b 11-19 A-4a 21881 3-1903 A-4b 6-1907 1198 A-4a 20438 5-1902 A-4b 11-19 A-4a 21887 3-1903 A-4b 2-1909 1199 A-4a 20450 5-1902 A-4b 9-19 A-4a 21912 3-1903 A-4b 9-1906 1200 A-4a 20451 5-1902 A-4b 5-19	006 006 007 006 007
1100	Disposition	
1195-	1191, 1194 & 1197 scrapped 8-1935  —Sold, E. I. duPont de Nemours & Co., 3-1941  Scrapped 2-1936 and 1199 scrapped 1-1936	
1201 1202 1203	195 A-la(W) P&R 3-1879 ? 35" 31200 Sc. 12-1903 478 A-2b Baldwin 3773 9-1875 14x22" 44" 56000 Sold Central Iron & Steel Co. #3, 10-1902 485 A-2b Baldwin 3936 7-1876 Sc. 4-1905	
	The above A-2b locomotives were changed to Unclassified when 1216-12 and 1231-1233 were reclassified as A-2b and A-2c respectively.	30
1204 1205 1206	A-2a 14x22" 44" 120# 58000 58000 9995# A-2b,c 14x22" 44" 145# 60000 60000 12080# Nos. 1216-1233  267 P&R 3-1883 Sc. 6-19 67 P&R 4-1883 10-19	17



-Courtesy of C. E. Fisher

Reading #1294- 3-3a, Reading Shops, 1886, at Camdon, N. J.



Reading #1497-E-5sa, Baldwin, 1924, at Rutherford, Pa.

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283
            P&R
1207
                                           6-1883
                                                    Sold-Collieries Sup. & Equip Co.
                                                    3-1910
             P&R
                                           6-1883
                                                                                   8-1915
1208
                                                                             Sc.
1209
        61
             P&R
                                           6-1883
                                                                                    4-1916
1210
        74
90
             P&R
                                                                                   6-1917
                                           8-1884
1211
             P&R
                                           8-1884
                                                    Sold United Gas Imp. Co.
                                                                                   2-1918
             P&R
1212
       150
                                           9-1884
                                                                                   4-1905
                                                                             Sc.
       151
1213
             P&R
                                           9-1884
                                                                              Sc.
                                                                                    7-1912
                                                                                    3-1905
1214
        85
             P&R
                                          10-1884
                                                                            Sold
1215
        86
             P&R
                                                                                    3-1933
                                          10-1884
                                                                             Sc.
1216
       545
             Baldwin
                                          12-1889
                                                                                    6-1917
                       10519
       546
1217
                      10517
                                          12-1889
             Baldwin
                                                                                    2-1925
                                                   Sold—Camden Forge Co.,
Sold—Reading Iron Co.,
1218
       547
                                           1-1890
             Baldwin
                       10547
                                                                                   5-1917
1219
       548
                       10548
                                           1-1890
             Baldwin
                                                                                   6-1912
1220
       549
                                           2-1890
                                                   Sold—Reading Iron Co.,
Sold—Texas Co., #6,
Sold—Temple Iron Co.,
Sc.
             Baldwin
                       10650
                                                                                   8-1929
                                           2-1890
2-1890
1221
       544
             Baldwin
                       10694
                                                                                    5-1914
1222
       550
             Baldwin
                       10645
                                                                                  10-1912
1223
       551
                       10655
                                           2-1890
             Baldwin
                                                                                   4-1908
1224
       552
             Baldwin
                       10693
                                           2-1890
                                                                                   9-1915
1225
       553
                       10696
                                           2-1890
             Baldwin
                                                                                  12-1911
1226
       624
             Baldwin
                       12750
                                           6-1892
                                                                                   4-1917
                       12751
1227
       625
                                                                                   8-1927
             Baldwin
                                           6-1892
1228
       626
            Baldwin
                       12757
                                           6-1892
                                                                                  11-1915
1229
                       12760
                                           6-1892
                                                                                   8-1912
       627
             Baldwin
1230
       628
                       12761
                                           6-1892
             Baldwin
                                                   Sold-Reading Iron Co.,
                                                                                   5-1914
1231
             Baldwin
                       14917
                                           6-1896
                                                                                   9-1923
                                                                             Sc.
         3
1232
             Baldwin
                       14918
                                           6-1896
                                                   Sold-Port Reading Creosoting
                                                   Plant, 9-1930
Sold—U. S. Signal Corps, Hamp-
1233
        56
                       14919
            Baldwin
                                           6-1896
                                                   ton, Va., 10-1917
      Nos. 1216-1230 reclassified A-2b prior to 11-1903
      Nos. 1231-1233 reclassifled A-2c prior to 11-1903
                          36"
      A-sa
                  llxl6"
                                          33000
      A-3b
                  11x16"
                          36"
                                  110#
                                          41000
                                                   41000
                                                            5030#
                 11x16"
      A-3b
                          36"
                                  120#
                                          38000
                                                   38000
                                                            5485#
                                                                   Nos. 1234 & 1236
1234
       446 A-3b Baldwin
                               3490
                                          11-1873
                                                                             Sc.
                                                                                   6-1903
1235
       460
            A-3a
                   Baldwin
                               2044
                                          12-1869
                                                                                   7-1903
1236
       473
             A-3b
                    Baldwin
                                3509
                                                                                  11-1905
                                          11-1873
1237
       486
                                           7-1876
            A-3b
                               3941
                                                   Sold D. Gring 12-1902, resold New-
                    Baldwin
                                                    port & Sherman's Valley R. R.
1238
      1058 . A-3b
                                4449
                                          10-1878
                                                                               Sc. 4-1905
                    Baldwin
1239
      1059 + A-3b
                               3115
                    Baldwin
                                           1-1873
                                                                               Sc. 4-1905
                                          0-4-0
                                                                                    5-1900
1240
      Uncl W&N #2
                         Baldwin 1959
                                           9-1869
                                                   14x22" 48"
                                                                 56000 Sold
      A-4a(W)
                         Baldwin 20452
                                           5-1902
                                                    Reclassified A-4b
1240
                                                                                    5-1907
             W&N #3
W&N #4
1241
      Uncl
                         Baldwin
                                   1993
                                          10-1869
                                                    14x22"
                                                            48"
                                                                  56000
                                                                                    3-1907
                                                    14x22"
                                                            48"
1242
      Uncl
                         Baldwin
                                   1680
                                          12-1867
                                                                  56000
                                                                                   6-1909
                                                    14x22"
                                                            48"
1243
      Uncl
             W&N #5
                         Baldwin
                                             1869
                                                                  56000
                                                                                    3-1905
1244
             W&N #8
W&N #1
                         Baldwin
                                             1873
                                                    15x24"
                                                             48"
                                                                  63000
                                                                                   9-1906
      Uncl
                         Baldwin 9842
                                                    18x24"
1245
      Uncl
                                           3-1889
                                                             50"
                                                                  85000
                                                                                   6-1914
                           A-4a(W)-All built by Baldwin
               5-1902
                                              1249
                                                                           A-4b 11-1907
1246
      20453
                            A-4b
                                    5-1907
                                                     20484
                                                              5-1902
1247
               5-1902
                                   12-1907
      20454
                                              1250
                                                     20507
                                                              5-1902
                            A-4b
                                                                           A-4b
                                                                                   3-1907
1248
      20455
               5-1902
                            A-4b
                                    1-1907
      Nos. 1246, 1247 and 1250 all retired 8-1935
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1251 <u>363</u> 1251 <u>—</u>	Uncl 0-6-0T Baldwin 27 B-4a(W)0-6-0T P&R B-1a 16x18" 43" B-1a(a) 16x18" 43" B-1b 16x18" 43"	0-6-0 741	Sc.	12-1910
1252 258 1253 276 1254 281 1255 293 1256 334 1257 335 1258 341	B-la P&R B-la P&R B-la(a) P&R B-la(a) P&R B-la(a) P&R B-la P&R B-la(a) P&R	11-1869 5-1870 6-1870 Sold—D. Gring, 9-1870 10-1871 11-1871 2-1872	Sc.	9-1906 2-1910 12-1902 4-1905 2-1910 3-1907 9-1906
1259 342 1260 10 1261 109 1262 39 1263 17 1264 47 1265 326 #126	B-la P&R B-la P&R B-la P&R B-la P&R B-la P&R B-la(a) P&R B-lb P&R* B-la P&R B-la P&R	3-1872 9-1872 10-1872 4-1874 3-1874 11-1887 7-1871 a and B-1b.	Sold Sc.	3-1910 10-1911 9-1905 11-1910 3-1905 4-1916 10-1912
	B-2a(W) 16x18" 43" B-2b(W) 16x18" 43" B-2c(W) 16x18" 43" B-2e 16x18" 434'	120# 61600 61600 10930# 120# 65700 65700 10930# 140# 69000 69000 12750# " 145# 77600 77600 13285		
1266 42 1267 70 1268 104 1269 4 1270 7	B-2a P&R B-2a P&R B-2a P&R B-2a P&R B-2a P&R	7-1878 10-1878 11-1878 11-1878 8-1879 8-1879 P&R* 10-1907 B-2e	Sc.	6-1909 12-1911 8-1911 3-1907 4-1923
1271 8 1272 120 1273 54 1274 52 1275 79	B-2c P&R* B-2a P&R B-2a P&R B-2a P&R B-2a P&R	6-1880 11-1890 8-1881 9-1881 Sold—Poulterer & C	Sc.	1-1921 2-1910 2-1910 4-1905 7-1902
1276 68 1277 172 1278 64 1279 117 1280 116 1281 284	B-2a P&R B-2b P&R B-2a P&R B-2a P&R B-2a P&R B-2a P&R	11-1881 11-1881 P&R* 11-1907 B-2e 6-1882 7-1882 8-1882 1882-3	Sc. Sc. Sc.	6-1909 7-1920 10-1911 5-1913 1-1911 6-1909
1282 103 1283 221 1284 111 1285 121 1286 299	B-2a P&R B-2a P&R B-2b P&R B-2b P&R B-2a P&R	4-1883 9-1883 Sold P&R C & I Co. 5-1883 5-1883 P&R* 12-1907 B-2e 6-1883	Sc. Sc. Sc.	3-1907 1-1911 3-1911 1-1921 1-1907
1287 303 1288 305 1289 318 1290 451 1291 106 1292 437	B-2a P&R B-2a P&R B-2a P&R B-2a P&R B-2a P&R B-2a P&R	7-1883 8-1883 8-1883 9-1883 9-1883		10-1911 2-1912 1-1910 1-1913 1-1907 10-1912
	B-3a 16x22" 44" B-5a(W) 20x24" 50" B-5b(W) 20x24" 50"	130# 74300 74300 14145# 145# 103000 103000 23665# 180# 121000 121000 29375#		

1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305	199 445 463 470 629 630 631 632 633 457 461 464 474	B-5a B-5a B-5b B-5b B-5b B-5b	P&R P&R P&R Baldwin Baldwin Baldwin Baldwin Baldwin	12764 12769 12770 12781 16617 16618 16619 16620		10-1886 11-1886 11-1886 11-1886 6-1892 6-1892 6-1892 6-1892 4-1899 4-1899 4-1899 4-1899				Sc.	9-1930 11-1921 1-1913 1-1910 7-1933 4-1930 8-1930 6-1927 6-1924 2-1926 7-1929 11-1932
					U	nclassified					
1205	******		D 11 1			0-6-0					E 1003
1307 1308 1309	W&N W&N W&N	#9	P. W. & Baldwin	B. R. 8412	R.	1885 1887	? 17x24" 17x24"	? 50" 50"	74000 80000(W)		
1707	******	п	Data	0112		0-4-0	111101	,,,	00000(11)		
1310	W&N	#29	Baldwin	3670		1874	9x15"	36"	24000		4-1904
		B-6a	20x2			200# 124 ilt by Bal		4900	32315#		
1311	22448		903			1314	22501	7-19	903 Sold I	E. I.	duPt.
1312 1313	22455 22463		903 903	Sc.	6-19	929 1315	de N. 22556	7-19	o., 3-1944 903	Sc.	11-1935
		B-8a	(W) 20x2	26" 50"	,	200# 154	125 154	4125	903 35360#		
1216	20.000		0.07	All	bu	ilt by Bale			~~=		
1316	30699 30700		907 907			1318	30936	5-1	907		
		B-7a	(W) 20x2			200# 162 ilt by Bald		2100	34620		
1321 1322	27320 27321		906 906			1334 1335	27645 27662	3-19			
1323	27322	1-1	906			1336	27762	3-19	906		
1324 1325	27354 27355		906 906			1337 1338	31055 31071	6-19			
1326	27356	1-1	906			1339	31072	6-19	907		
1327 1328	27548 27549		907 907			1340 1341	31101 31131	6-19			
1329 1330	27572 27573		907 907			1342 1343	31205 31206	7-19			
1331	27581	2-1	907			1344	31225	7-19	907		
1332 1333	27589 27762		907 907			1345 1346	31226 31315	7-19			
				Buil	t in	Reading !	Shops				
1347- 1351	1348	12-1					1350 1356	1-19			
1371	Nos.			E-3a	rent				be listed	in t	he 1400
	series.			,							

1393-1396			B-8b	(W) 20	0x26" 50" All built			6000 15		37150#	-	
E-la								_		21		
E-la							_					
E-1b   18x22" 43"   120\( \frac{\pi}{2} \) 79800   16910\( \frac{\pi}{2} \)   E-2c(W)   18x22" 43"   145\( \frac{\pi}{2} \) 94000   94000   20430\( \frac{\pi}{2} \)   E-2b(W)   18x22" 43"   145\( \frac{\pi}{2} \) 94000   94000   20430\( \frac{\pi}{2} \)   E-2b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   19910\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   19910\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   179700   39120\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   177710   177710   39120\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   177710   177710   39120\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   179700   39120\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   177710   177710   39120\( \frac{\pi}{2} \)   E-3b(W)   21x28" 55" 205\( \frac{\pi}{2} \)   179700   177710						0-8-0	)					
1400   1351   E-3a   Baldwin   26143   8-1905   P&R*   5-1915   E-3b   Sc.   2-1937   Sc.   4-1902   P&R*   1-1915   E-3b   Sc.   2-1937			E-1b E-1c E-2a( E-2b) E-3a( E-3b)	18x2 18x2 (W) 18x2 (W) 18x2 (W) 21x2 (W) 21x2	22" 43" 22" 43" 22" 43" 22" 43" 28" 55" 28" 55"	120# 145# 145# 145# 205# 205#	79 83 94 94 179 177	200 7 200 8 200 9 200 9 200 9 270 17 271 17	9800 1 3200 2 4000 2 4000 2 9700 3 7710 3	6910# 20430# 20430# 20430# 19120# 89120#		
1401   213   E-1a   PR*   Baldwin   26150   Sel-905   PR*   11-1915   E-3b   Sec.   3-1905   PR*   11-1905   PR*   11-1915   E-3b   Sec.   3-1905   PR*   11-1905   PR*   11-1915   E-3b   Sec.   3-1905   PR*   11-1905   PR*   1	1400	1251										
1402   204   E-1a   P&R   Baldwin   26187   11-1868   8-1905   P&R*   8-1917   E-3b   Sc.   2-1937   Sc.   2-	1401	213	E-la	PR*		4-18	869	Sold-	Poulter	er & Co.	,	4-1902
1403   201   E-1a   P&R   26214   8-1905   P&R*   8-1915   E-3b   Sc.   10-1940   1404   225   E-1a   P&R*   8-1905   P&R*   8-1915   E-3b   Sc.   10-1940   1405   1356   E-3a   Baldwin   26306   8-1905   P&R*   8-1915   E-3b   Sc.   10-1940   1405   1356   E-3a   Baldwin   26306   8-1905   P&R*   7-1915   E-3b   Sc.   2-1937   1406   247   E-1a   P&R*   8-1905   P&R*   7-1915   E-3b   Sc.   2-1937   1406   1357   E-3a   Baldwin   26307   8-1905   P&R*   7-1916   E-3b   Sc.   2-1937   1406   1357   E-3a   Baldwin   26308   8-1905   P&R*   2-1916   E-3b   Sc.   2-1937   1408   1359   E-3a   Baldwin   26328   8-1905   P&R*   2-1916   E-3b   Sc.   2-1911   1409   1360   E-3a   Baldwin   26328   11-1850   1410   266   E-1a   P&R*   1-1870   1411   891   E-4a   Baldwin   13009   10-1892   1411   891   E-4a   Baldwin   13000   10-1892   1413   272   E-1a   P&R*   5-1870   1414   286   E-3a   Baldwin   13007   10-1892   1414   286   E-1a   P&R*   1-1892   1415   895   E-4a   Baldwin   13023   11-1892   1416   291   E-1a   P&R*   9-1870   1416   894   E-4a   Baldwin   13023   11-1892   1416   291   E-1a   P&R*   9-1870   1417   898   E-4a   Baldwin   13028   11-1892   1418   900   E-4a   Baldwin   13028   11-1892   1419   22   E-1a   P&R*   9-1870   1418   900   E-4a   Baldwin   13028   11-1892   1419   903   E-4a   Baldwin   13028   11-1892   1419   903   E-4a   Baldwin   13088   12-1892   1420   36   E-1a   P&R*   1-1871   1421   892   E-4a   Baldwin   13049   11-1893   1-1892   1-1871   1421   892   E-4a   Baldwin   13049   11-1893   1-1892   1-1993   1-1	1402	204	E-la	P&R		11-18	868					
1403   1354   E-3a   Baldwin   26214   6-1905   P&R*   8-1915   E-3b   Sc.   10-1940     1404   1255   E-1a   P&R*   7-1869   P&R*   8-1915   E-3b   Sc.   10-1940     1405   1356   E-3a   Baldwin   26306   8-1905   P&R*   8-1915   E-3b   Sc.   10-1940     1406   1357   E-3a   Baldwin   26307   8-1905   P&R*   7-1915   E-3b   Sc.   10-1940     1407   1358   E-3a   Baldwin   26308   8-1905   P&R*   9-1916   E-3b     1408   1359   E-3a   Baldwin   26328   P&R*   1-1870     1409   1360   E-3a   Baldwin   26328   P&R*   1-1870     1410   266   E-1a   P&R*   P&R*   1-1880     1411   273   E-1a   Baldwin   13029   11-1892     1411   273   E-1a   P&R*   Baldwin   13008   10-1892     1411   273   E-1a   P&R*   Baldwin   13009   10-1892     1411   273   E-1a   P&R*   Baldwin   13000   10-1892     1411   274   E-1a   P&R*   Baldwin   13001     1414   286   E-1a   P&R*   Baldwin   13023   11-1892     1415   290   E-1a   P&R*   Baldwin   13023   11-1892     1416   291   E-1a   P&R*   Baldwin   13028   11-1892     1417   294   E-1a   P&R*   Baldwin   13028   11-1892     1418   297   E-1a   P&R*   Baldwin   13088   12-1892     1419   202   E-1a   P&R*   Baldwin   13088   11-1892     1419   903   E-4a   Baldwin   13088   11-1892     1419   903   E-4a   Baldwin   13088   11-1892     1419   903   E-4a   Baldwin   13088   11-1892     1420   36   E-1a   P&R*   Baldwin   13044     1419   903   E-4a   Baldwin   13088   11-1892     1420   36   E-1a   P&R*   Baldwin   13044     1420   36   E-1a   P&R*   Baldwin   13044     1421   346   E-1a   P&R*   Baldwin   13042     1421   346   E-1a   P&R*   Baldwin   13012     1421   346   E-1a					26187	8-19	905 868	P&R*	8-191	7 E-3b		
1404   1355   E-3a   Baldwin   26298   8-1905   P&R*   8-1915   E-3b   Sc.   10-1940	1403	1354	E-3a	Baldwin	26214	8-19	905	P&R*	8-191	5 E-3b	Sc.	
1405   243   E-la   P&R*   7-1869   P&R*   7-1915   E-3b   Sc.   2-1937     1406   247   E-la   P&R*   Sc.   10-1902     1406   1357   E-3a   Baldwin   26307   8-1905   P&R*   9-1916   E-3b     1407   256   E-la   P&R*   10-1869     1407   1358   E-3a   Baldwin   26308   8-1905   P&R*   9-1916   E-3b     1408   257   E-la   P&R*   11-1869     1409   262   E-la   P&R*   1-1870     1410   266   E-la   P&R*   3-1916   E-3b     1410   266   E-la   P&R*   3-1916   E-3b     1411   273   E-la   P&R*   3-1870     1411   273   E-la   P&R*   3-1870     1412   288   E-4a   Baldwin   13008   10-1892     1413   272   E-la   P&R*   5-1870     1414   286   E-la   P&R*   5-1870     1415   289   E-4a   Baldwin   13002   11-1892     1416   291   E-la   P&R*   9-1870     1416   291   E-la   P&R*   9-1870     1417   294   E-la   P&R*   1-1892     1418   297   E-la   P&R*   1-1892     1419   22   E-la   P&R*   1-1871     1419   903   E-4a   Baldwin   13088   12-1892     1419   22   E-la   P&R*   1-1871     1420   306   E-la   P&R*   1-1871     1421   346   E-la   P&R*   4-1871     1422   346   E-la   P&R*   4-1871     1421   342   E-la   Baldwin   13012   11-1893     1422   34   E-lb   P&R*   11-1873     1421   342   E-la   Baldwin   13012   11-1893     1421   342   343   E-lb   P&R*   11-1873     1421   342   E-la   Baldwin   13012   11-1893     1421   342   E-la   Baldwin   13012   11-1893					26209			D£D*	8 101	5 E 2h		
1405   1356   E-3a   Baldwin   26306   8-1905   P&R*   7-1915   E-3b   Sc.   2-1937   Sc.   10-1902   1406   1357   E-3a   Baldwin   26307   8-1905   P&R*   9-1916   E-3b   Sc.   10-1902   1407   1358   E-3a   Baldwin   26308   8-1905   P&R*   2-1916   E-3b   Sc.   4-1905   1408   1359   E-3a   Baldwin   26328   9-1905   P&R*   2-1916   E-3b   Sc.   2-1911   1409   1360   E-3a   Baldwin   26343   9-1905   P&R*   7-1916   E-3b   Sc.   10-1940   1409   1360   E-3a   Baldwin   13029   11-1892   1411   273   E-1a   P&R*   5-1870   1411   891   E-4a   Baldwin   13008   10-1892   1412   271   E-1a   P&R*   5-1870   1413   890   E-4a   Baldwin   13007   10-1892   1414   886   E-1a   P&R*   8-1870   1414   887   E-4a   Baldwin   13023   11-1892   1415   290   E-1a   P&R*   9-1870   1416   894   E-4a   Baldwin   13028   11-1892   1416   291   E-1a   P&R*   9-1870   1417   294   E-1a   P&R*   9-1870   1418   297   E-1a   P&R*   11-1892   1419   22   E-1a   P&R*   11-1871   1419   22   E-1a   P&R*   11-1892   1418   297   E-1a   Baldwin   13069   12-1892   1418   297   E-1a   Baldwin   13088   12-1892   1418   297   E-1a   Baldwin   13088   12-1892   1419   22   E-1a   Baldwin   13088   12-1892   1420   36   E-1a   P&R*   4-1871   1421   346   E-1a   P&R*   4-1871   142					20290			ran	0-191	7 E-30	Sc.	
1406   1357   E-3a   Baldwin   26307   8-1905   P&R*   9-1916   E-3b   Sc.   4-1905			E-3a		26306			P&R*	7-191	5 E-3b	Sc.	
1407   256   E-la   P&R*   26308   8-1905   P&R*   2-1916   E-3b   Sc.   2-1911     1408   1359   E-3a   Baldwin   26328   9-1905   P&R*   7-1916   E-3b     1409   262   E-la   P&R*   1-1870   P&R*   5-1916   E-3b   Sc.   2-1911     1409   1360   E-3a   Baldwin   26343   9-1905   P&R*   5-1916   E-3b   Sc.   10-1940     1410   266   E-1a   P&R*   3-1870   Sc.   3-1905     1410   896   E-4a   Baldwin   13029   11-1892   11-1892     1411   273   E-la   P&R*   5-1870   9-1912     1412   271   E-la   P&R*   5-1870   9-1912     1413   890   E-4a   Baldwin   13000   10-1892   9-1870   10-1931     1414   897   E-4a   Baldwin   13023   11-1892   9-1870   11-1911     1415   895   E-4a   Baldwin   13023   11-1892   9-1870   11-1911     1416   894   E-4a   Baldwin   13028   11-1892   9-1870   11-1911     1417   294   E-1a   P&R*   9-1870   9-1870   11-1911     1418   297   E-1a   P&R*   10-1870   10-1892   10-1932     1419   22   E-1a   P&R*   11-1892   9-1870   10-1932     1419   903   E-4a   Baldwin   13088   12-1892   11-1871     1419   903   E-4a   Baldwin   13088   12-1892   11-1871     1420   907   E-4a   Baldwin   13012   11-1893   11-1905     1421   346   E-1a   P&R*   4-1871   11-1905     1422   346   E-1a   P&R*   4-1871   11-1905     1422   346   E-1a   P&R*   4-1871   11-1873   11-1905     1422   346   E-1a   P&R*   4-1871   11-1873   11-189					26307	8-18	369 305	P&R*	9-191	6 F-3h	Sc.	10-1902
1408   257   E-la   P&R*   26328   9-1905   P&R*   7-1916   E-3b   3-1911     1409   1360   E-3a   Baldwin   26343   9-1905   P&R*   5-1916   E-3b   Sc.   3-1905     1410   266   E-la   P&R*   3-1870   Sc.   3-1905     1410   896   E-4a   Baldwin   13029   11-1892   11-1892   10-1933     1411   273   E-la   P&R*   5-1870   10-1931     1412   271   E-la   P&R*   5-1870   10-1931     1412   271   E-la   P&R*   5-1870   10-1931     1413   272   E-la   P&R*   5-1870   10-1931     1413   272   E-la   P&R*   5-1870   10-1931     1414   286   E-1a   P&R*   5-1870   10-1931     1415   290   E-1a   Baldwin   13007   10-1892   6-1936     1414   286   E-1a   P&R*   9-1870   11-1892     1415   290   E-1a   Baldwin   13028   11-1892   11-1892     1416   291   E-1a   P&R*   9-1870   11-1911     1417   294   E-1a   P&R*   10-1870   11-1892     1418   297   E-1a   P&R*   10-1870   10-1870     1419   22   E-1a   P&R*   10-1870   10-1892     1419   903   E-4a   Baldwin   13069   12-1892   11-1892     1419   903   E-4a   Baldwin   13088   12-1892   11-1871     1419   903   E-4a   Baldwin   13088   12-1892   11-1871     1420   907   E-4a   Baldwin   13127   12-1892     1421   346   E-1a   P&R*   4-1871   1-1893   5-1936     1422   34   E-1b   P&R*   11-1873   3-1911     1421   346   E-1a   P&R*   3-1916     1422   344   E-1b   P&R*   3-1916     1421   342   E-4a   Baldwin   13012   11-1892   5-1936     1422   344   E-1b   P&R*   3-1916     1421   342   E-4a   Baldwin   13012   11-1893   3-1911     1	1407	256	E-la	P&R*		10-18	369				Sc.	4-1905
1408   1359   E-3a   Baldwin   26328   9-1905   P&R*   7-1916   E-3b   3-1911     1409   1360   E-3a   Baldwin   26343   9-1905   P&R*   5-1916   E-3b   Sc.   10-1940     1410   266   E-1a   P&R*   3-1870   Sc.   3-1905     1410   896   E-4a   Baldwin   13029   11-1892   10-1933     1411   273   E-1a   P&R*   5-1870   9-1912     1411   891   E-4a   Baldwin   13000   10-1892   10-1933     1412   271   E-1a   P&R*   5-1870   10-1911     1412   889   E-4a   Baldwin   13000   10-1892   6-1936     1413   890   E-4a   Baldwin   13007   10-1892   6-1936     1414   286   E-1a   P&R*   8-1870   4-1905     1415   290   E-1a   P&R*   9-1870   11-1911     1415   895   E-4a   Baldwin   13023   11-1892   11-1892     1416   291   E-1a   P&R*   9-1870   11-1911     1417   294   E-1a   P&R*   10-1870   1-1892   2-1937     1417   294   E-1a   Baldwin   13069   12-1892   11-1870     1418   297   E-1a   P&R*   11-1871   1-1871     1419   903   E-4a   Baldwin   13088   12-1892   1-1871     1420   907   E-4a   Baldwin   13127   12-1892   1-1871     1421   346   E-1a   P&R*   4-1871   2-1912     1421   346   E-1a   P&R*   4-1871   2-1912     1422   346   E-1a   P&R*   4-1871   2-1912     1421   346   E-1a   P&R*   4-1871   2-1912     1422   346   E-1a   P&R*   4-1871   2-1912     1423   346   E-1a   P&R*   4-1871   3-1911     1421   346   E-1a   P&R*   4-1871   3-1911     1422   346   E-1a   P&R*   4-1871   3-1911     1423   346   E-1a   P&R*   4-1871   3-1911     1424   346   E-1a   P&R*   4-1871   3-1911     1425   346   E-1a   P&R*   4-1871   3-1911     1426   347   E-148   Baldwin   13012   11-1892   5-1936     1422   346   E-1a   P&R*   4-1871   3-1911     1421   346   E-1a   P&R*   4-1871   3-1911     1421   346   E-1a   P&R*   4-1871   3-1911     1421   342   E-1a   Baldwin   13012   11-1893   3-1911     1421   342   E-1a   Baldwin   13012   11-1893   3-1911     1421   342   E-1a   Baldwin   13012   11-1893   3-1911     1421   342   344   E-1b   P&R*   3-1911     1421   345   E-1a   P&R*   4-1871   3-1911     1421   346   E-					26308			P&R*	2-191	6 E-3b	C.	2.1011
1409   1360   E-3a   Baldwin   26343   9-1905   P&R*   5-1916   E-3b   Sc.   10-1940     1410   266   E-1a   P&R*     13029   11-1892     1411   273   E-1a   P&R*     5-1870     10-1933     1412   271   E-1a   P&R*     5-1870     10-1933     1412   271   E-1a   P&R*     5-1870     10-1933     1412   2889   E-4a   Baldwin   13000   10-1892     5-1870     10-1911     1412   889   E-4a   Baldwin   13007   10-1892     6-1936     1414   286   E-1a   P&R*     5-1870     10-1905     1414   286   E-1a   P&R*     13007   10-1892     6-1936     1415   290   E-1a   P&R*     9-1870     11-1911     1415   895   E-4a   Baldwin   13023   11-1892     11-1892     1416   291   E-1a   P&R*     9-1870     11-1911     1417   294   E-1a   P&R*     10-1870     Sc.   5-1904     1418   297   E-1a   P&R*     10-1870     Sc.   5-1904     1419   22   E-1a   P&R*     11-1871     Sold—E.   H. Wilson & Co.,   5-1902     1419   903   E-4a   Baldwin   13127   12-1892     11-1891     11-1905     1420   306   E-1a   P&R*     4-1871     2-1932     3-1911     1421   346   E-1a   P&R*     4-1871     3-1911     3-1911     1421   392   E-4a   Baldwin   13012   11-1892     3-1911     1421   394   E-1a   P&R*     4-1871     3-1911					26328			P&R*	7-191	6 E-3b	Sc.	2-1911
1410   266   E-la   P&R*   3-1870   Sc.   3-1905     1410   896   E-4a   Baldwin   13029   11-1892   10-1933     1411   273   E-la   P&R*   5-1870   10-1933     1412   271   E-la   P&R*   5-1870   10-1931     1412   289   E-4a   Baldwin   13000   10-1892   10-1931     1413   890   E-4a   Baldwin   13007   10-1892   6-1936     1414   286   E-la   P&R*   8-1870   4-1905     1414   897   E-4a   Baldwin   13032   11-1892   6-1936     1415   290   E-la   P&R*   9-1870   11-1911     1415   895   E-4a   Baldwin   13023   11-1892   9-1870   11-1911     1416   291   E-la   P&R*   9-1870   3-1907     1417   294   E-la   P&R*   10-1870   3-1907     1417   294   E-la   Baldwin   13069   12-1892   11-1870     1418   297   E-la   P&R*   10-1870   Sc.   5-1904     1419   903   E-4a   Baldwin   13088   12-1892   Sc.   10-1940     1419   903   E-4a   Baldwin   13127   12-1892   Sc.   10-1940     1419   903   E-4a   Baldwin   13127   12-1892   Sc.   10-1940     1420   907   E-4a   Baldwin   13144   1-1893   5-1932     1421   346   E-1a   P&R*   4-1871   2-1912     1421   892   E-4a   Baldwin   13012   11-1892   5-1936     1422   34   E-1b   P&R*   3-1911     1421   892   E-4a   Baldwin   13012   11-1893   5-1936     1422   34   E-1b   P&R*   11-1873   3-1911     1421   346   E-1a   P&R*   4-1871   2-1912     1422   34   E-1b   P&R*   11-1873   3-1911     1423   34   E-1b   P&R*   11-1873   3-1911					26242			De Da	E 101	6 F 21	c -	
14  10					20343			Parc	2-191	0 E-3D		
1411   891   E-4a   Baldwin   13008   10-1892   10-1933   10-1911   1412   271   E-1a   P&R*   5-1870   10-1911   1413   272   E-1a   P&R*   5-1870   7-1906   1413   890   E-4a   Baldwin   13007   10-1892   6-1936   1414   896   E-1a   P&R*   8-1870   4-1905   1414   897   E-4a   Baldwin   13032   11-1892   1415   290   E-1a   P&R*   9-1870   11-1911   1415   895   E-4a   Baldwin   13023   11-1892   1416   291   E-1a   P&R*   9-1870   11-1911   1416   894   E-4a   Baldwin   13028   11-1892   3-1907   1416   894   E-4a   Baldwin   13028   11-1892   3-1907   1417   294   E-1a   P&R*   10-1870   Sc.   5-1904   1418   297   E-1a   P&R*   11-1870   Sc.   5-1904   1419   22   E-1a   P&R*   11-1870   Sc.   5-1904   1419   903   E-4a   Baldwin   13088   12-1892   Sc.   10-1940   1419   903   E-4a   Baldwin   13127   12-1892   1420   36   E-1a   P&R*   4-1871   2-1912   1420   36   E-1a   P&R*   4-1871   2-1912   1421   346   E-1a   P&R*   4-1871   3-1911   1421   392   E-4a   Baldwin   13012   11-1893   3-1911   1421   394   E-1a   P&R*   3-1911   1422   34   E-1b   P&R*   11-1873   3-1911	1410		E-4a	Baldwin	13029	11-18	392					
1412   271   E-1a   P&R*   5-1870   10-1911   1412   889   E-4a   Baldwin   13000   10-1892   5-1870   7-1906   1413   890   E-4a   Baldwin   13007   10-1892   6-1936   1414   897   E-4a   Baldwin   13032   11-1892   1415   290   E-1a   P&R*   9-1870   11-1911   1415   895   E-4a   Baldwin   13023   11-1892   1416   291   E-1a   P&R*   9-1870   3-1907   1417   294   E-1a   P&R*   10-1870   3-1907   1417   898   E-4a   Baldwin   13069   12-1892   1418   297   E-1a   P&R*   11-1870   Sold—E.   H. Wilson & Co., 5-1902   1419   903   E-4a   Baldwin   13088   12-1892   Sc.   10-1940   1419   903   E-4a   Baldwin   13127   12-1892   1420   36   E-1a   P&R*   4-1871   1-1871   1421   346   E-1a   P&R*   4-1871   2-1912   3-1911   1422   346   E-1a   P&R*   4-1871   3-1911   1-1893   3-1911   1-1873   3-1911					13008							
1413   272   E-la   P&R*   5-1870   6-1936     1414   286   E-la   P&R*   8-1870   6-1936     1414   897   E-4a   Baldwin   13032   11-1892     1415   290   E-la   P&R*   9-1870   11-1911     1416   291   E-la   P&R*   9-1870   3-1907     1416   291   E-la   P&R*   9-1870   3-1907     1416   894   E-4a   Baldwin   13028   11-1892   3-1907     1417   294   E-la   P&R*   10-1870   Sc.   5-1904     1417   898   E-4a   Baldwin   13069   12-1892   11-1870     1418   297   E-la   P&R*   11-1870   Sc.   5-1904     1419   22   E-1a   P&R*   1-1871   Sold—E. H. Wilson & Co., 5-1902     1419   903   E-4a   Baldwin   13127   12-1892   Sc.   11-1905     1420   306   E-1a   P&R*   4-1871   2-1912     1421   346   E-1a   P&R*   3-1911     1421   392   E-4a   Baldwin   13012   11-1893   5-1936     1422   34   E-1b   P&R*   11-1873   3-1911     1423   34   E-1b   P&R*   11-1873   3-1911     1424   34   E-1b   P&R*   11-1873   3-1911     1425   34   E-1b   P&R*   11-1873   3-1911     1426   34   E-1b   P&R*   3-1911     1427   34   E-1b   P&R*   3-1911     1428   34   E-1b   P&R*   3-1911     1429   34   E-1b   P&R*   3-1911     1420   34   E-1b   P&R*   3-1911     1421   342   343   E-1b   P&R*   3-1911     1421   342   344   E-1b   P&R*   3-1911     1421   345   E-1b   P&R*   3-1911     1421   342   344   E-1b   P&R*   3-1911     142	1412	271										
1413   890   E-4a   Baldwin   13007   10-1892   6-1936   4-1905   1414   286   E-1a   P&R*   9-1870   11-1911   1415   895   E-4a   Baldwin   13023   11-1892   1416   291   E-1a   P&R*   9-1870   11-1911   1416   291   E-1a   P&R*   9-1870   3-1907   1417   294   E-1a   Baldwin   13023   11-1892   2-1937   1417   294   E-1a   P&R*   10-1870   Sc.   5-1904   1417   898   E-4a   Baldwin   13069   12-1892   1418   297   E-1a   P&R*   1-1870   Sold—E.   H. Wilson & Co.,   5-1902   1418   900   E-4a   Baldwin   13088   12-1892   Sc.   10-1940   1419   903   E-4a   Baldwin   13127   12-1892   Sc.   10-1940   1419   903   E-4a   Baldwin   13127   12-1892   1420   36   E-1a   P&R*   4-1871   2-1912   1420   907   E-4a   Baldwin   13144   1-1893   3-1911   1421   892   E-4a   Baldwin   13012   11-1892   5-1936   1422   34   E-1b   P&R   11-1873   3-1911   1-1873   3-1911					13000							7 1006
1414   286   E-la   P&R*   Baldwin   13032   11-1892   11-1891   1415   290   E-la   P&R*   9-1870   11-1911   1415   895   E-4a   Baldwin   13023   11-1892   1416   291   E-la   P&R*   9-1870   3-1907   1416   894   E-4a   Baldwin   13028   11-1892   2-1937   1417   294   E-la   P&R*   10-1870   Sc.   5-1904   1417   898   E-4a   Baldwin   13069   12-1892   1418   297   E-la   P&R*   11-1870   Sold—E.   H. Wilson & Co.,   5-1902   1419   903   E-4a   Baldwin   13127   12-1892   1419   903   E-4a   Baldwin   13127   12-1892   1420   36   E-la   P&R*   4-1871   2-1912   1420   907   E-4a   Baldwin   13144   1-1893   3-1911   1421   346   E-la   P&R*					13007							
11-1911   1415   290   E-1a   P&R*   13023   11-1892   11-1892   11-1892   11-1892   11-1892   11-1892   11-1892   11-1892   10-1870   10-1932   11-1892   10-1932   11-1892   10-1932   11-1892   10-1932   11-1892   10-1932   11-1892   10-1932   11-1892   11-1870   11-1905   11-1905   11-1905   11-1905   11-1905   11-1905   11-1905   11-1905   11-1871   11-1892   11-1871   11-1893				P&R*	12022							4-1909
1415   895   E-4a   Baldwin   13023   11-1892   9-1870   3-1907     1416   894   E-4a   Baldwin   13028   11-1892   2-1937     1417   294   E-1a   P&R*   10-1870   Sc.   5-1904     1417   898   E-4a   Baldwin   13069   12-1892   10-1870     1418   297   E-1a   P&R*   11-1870   Sold—E. H. Wilson & Co.,   5-1902     1419   903   E-4a   Baldwin   13127   12-1892   Sc.   10-1940     1419   903   E-4a   Baldwin   13127   12-1892   Sc.   10-1940     1420   907   E-4a   Baldwin   13144   1-1893   5-1932     1421   346   E-1a   P&R*					13032							11-1911
1416	1415	895	E-4a	Baldwin	13023	11-18	92					
1417   294   E-la   P&R*   10-1870   12-1892   11-1870   Sc.   5-1904   10-1932   1418   297   E-la   P&R*   11-1870   Sold—E. H. Wilson & Co.,   5-1902   1418   900   E-4a   Baldwin   13088   12-1892   Sc.   10-1940   1419   903   E-4a   Baldwin   13127   12-1892   1420   36   E-la   P&R*   4-1871   2-1912   1420   907   E-4a   Baldwin   13144   1-1893   5-1932   1421   346   E-la   P&R*					13029							
1418         297         E-1a         P&R*         11-1870         Sold—E. H. Wilson & Co., 5-1902           1418         900         E-4a         Baldwin 13088         12-1892         Sc. 10-1940           1419         22         E-1a         P&R*         11-1871         11-1905           1420         36         E-1a         P&R*         4-1871         2-1912           1420         907         E-4a         Baldwin 13144         1-1893         5-1932           1421         346         E-1a         P&R*         -         3-1911           1422         34         E-1b         P&R         11-1873         3-1911		294			10020						Sc.	
1418         900         E-4a         Baldwin         13088         12-1892         Sc.         10-1940           1419         22         E-1a         P&R*         1-1871         11-1905           1419         903         E-4a         Baldwin         13127         12-1892           1420         36         E-1a         P&R*         4-1871         2-1912           1420         907         E-4a         Baldwin         13144         1-1893         5-1932           1421         346         E-1a         P&R*         -         3-1911           1421         892         E-4a         Baldwin         13012         11-1892         5-1936           1422         34         E-1b         P&R         11-1873         3-1911					13069	12-18	92	C-14 1	- 11 1	371 0	C-	
1419     22     E-1a     P&R*     1-1871     11-1905       1419     903     E-4a     Baldwin     13127     12-1892       1420     36     E-1a     P&R*     4-1871     2-1912       1420     907     E-4a     Baldwin     13144     1-1893     5-1932       1421     346     E-1a     P&R*     -     3-1911       1421     892     E-4a     Baldwin     13012     11-1892     5-1936       1422     34     E-1b     P&R     11-1873     3-1911					13088			Sold—I	s. H. V	wilson &		
1420     36     E-la     P&R*     4-1871     2-1912       1420     907     E-4a     Baldwin     13144     1-1893     5-1932       1421     346     E-1a     P&R*     —     3-1911       1421     892     E-4a     Baldwin     13012     11-1892     5-1936       1422     34     E-1b     P&R     11-1873     3-1911	1419	22	E-la	P&R*		1-18	71					
1420     907     E-4a     Baldwin     13144     1-1893     5-1932       1421     346     E-1a     P&R*     —     3-1911       1421     892     E-4a     Baldwin     13012     11-1892     5-1936       1422     34     E-1b     P&R     11-1873     3-1911					13127							2-1912
1421 892 E-4a Baldwin 13012 11-1892 5-1936 1422 34 E-1b P&R 11-1873 3-1911	1420	907	E-4a	Baldwin	13144							5-1932
1422 34 E-1b P&R 11-1873 3-1911					13012	11.19	02					
					13012							
	1422	899	E-4a	Baldwin	13070	12-18	92					



-Courtesy of the Reading Co.

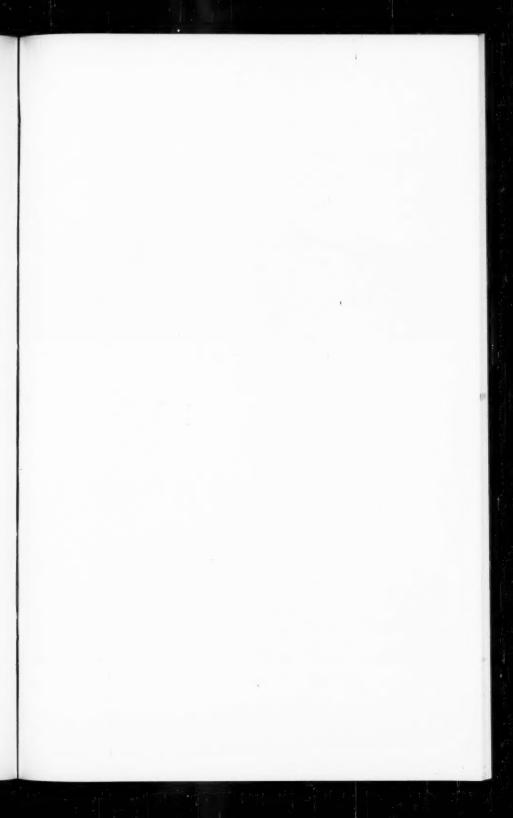
Reading #1616-i-8c, Reading Shops, 1914.

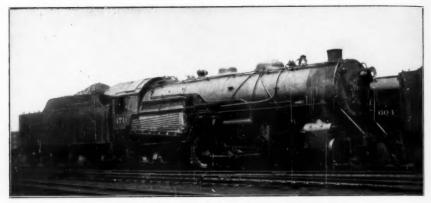


Reading #1667-1-9sa, Baldwin, 1919, at St. Clair, Pa.

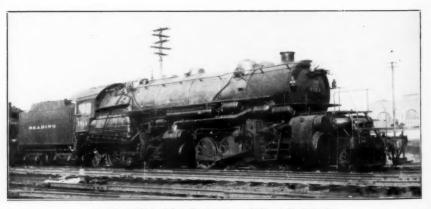
1423	108	E-1b	P&R		11-1873					3-1911
1423 1424	888	E-4a E-1b	Baldwin P&R	12999	10-1892 7-1875					10-1906
1424	902	E-4a	Baldwin	13107	12-1892					10-1500
1425 1425	30 906	E-la E-4a	P&R Baldwin	13143	8-1875 1-1893	11-1911	Chan	ged to	E-1b	
1426	130	E-la	P&R	13143	8-1875					2-1903
1426	930	E-4a	Baldwin	13345	4-1893					11 1011
1427 1427	27 915	E-1b E-4a	P&R Baldwin	13200	8-1875 2-1893					11-1911 6-1936
1428	253	E-1b	P&R*	15200	2-1093					7-1912
1428	936	E-4a E-1c	Baldwin	15042	9-1896					
1429 1429	259 893	E-1c E-4a	P&R* Baldwin	13019	11-1892					10-1910
1430	29	E-1c	P&R*	13019	9-1888					1-1927
1431	41	E-lc	P&R*							10-1906
1431 1432	924	E-4a E-1c	Baldwin P&R*	13302	3-1893					1-1933 2-1912
1432	937	E-1c E-4a	Baldwin	15043	9-1896					6-1936
1433	50	E-2a	P&R		3-1878					6-1911
1433	901	E-4a	Baldwin	13098	12-1892					0.1002
1434 1434	65 921	E-2a E-4a	P&R Baldwin	13234	5-1879 2-1893	Sold-1	oulter	er & Co.	,	8-1902
1435	25	E-2b	P&R*	17674	2-1892				Sc.	3-1917
1436	129	E-2b	P&R*	12218	2 1002					8-1911
1436 1437	926 279	E-4a E-2b	Baldwin P&R*	13317	3-1893					3-1912
1437	911	E-4a	Baldwin	13178	1-1893					6-1936
1438	295	E-2b	P&R*		_					8-1912
1439	105	E-2b E-2b	P&R*						C-	3-1913
1440 1441	288 280	E-2b	P&R* P&R*						Sc.	3-1907 10-1914
1442	235	E-2b	P&R*							4-1912
1443	210	E-2b	P&R*		0.1000					8-1906
1444 1445	260 277	E-2b E-2b	P&R* P&R*		9-1892					2-1921 3-1912
1446	80	E-2b	P&R*							3-1914
1447	215	E-2b	P&R*							2-1915
	Class	E-4a	rebuilt fro	m class I-	4d.					
				-	0.1044					
1448 1449	177 93	G-la	0-10-0 W) 0-10-0	P&R P&R	3-1866 11-1885	20x26" 20x26"	423/4" 423/4"	88700 107000	Sc.	6-1911 5-1912
1447	93	U-2a(	W) 0-10-0	ran	11-1007	20X20	4294	10/000		7-1912
1450	403	N-la	2-6-0 Bal	dwin 3413	9-1873	17x22"	48"	85400		5-1911
1451	404		2-6-0 Bal		10-1873			07.00		6-1909
				-						
1451		B-9a(		8" 551/2"	185# 16 11-1917	59800 16	9800	41695		
1451 1452	623	B-9a Uncl(	P&R W) P&R		1900	2-6-0 1	28-20x2	4" 611/2	<b>"</b> 11	3400
	042	Oner	m) ranc			Re. 528			**	2100
1452	10	B-9a	P&R	10011	12-1917		0.04	F 411	0.400	
1453	19	Uncl	Baldwin	12011	4-1922	2-6-0 1 Sold 1-		54"	9420	)
1453		B-9a	P&R		12-1917					
1454	1208	N-2a	Rogers	4221	11-1889	2-6-0 1	9x24"	54" 110	0000	4 1010
1454		B-9a	P&R		1-1918				Sc.	4-1912
1455	1209	N-2a	Rogers	4222	11-1889				Sc.	11-1911
1455		B-9a	P&R		1-1918					

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1456
              N-2a
                     Rogers
                                             5-1890
       1210
                                 4287
                                                                                      10-1912
                                             1-1918
1456
              B-9a
                     P&R
              N-2a
1457
                                             5-1890
       1211
                     Rogers
                                 4288
                                                                                      2-1911
1457
              B-9a
                     P&R
                                             2-1918
       1212
                               11089
                                                      2-6-0 19x26"
                                                                      54"
                                                                            110600
1458
              N-3a
                     Baldwin
                                             8-1890
                                                                                Sc.
                                                                                      2-1915
1458
              B-9a
                     P&R
                                             2-1918
1459
       1213
              N-3a
                     Baldwin 11093
                                             8-1890
                                                                                      3-1912
              B-9a
1459
                     P&R
                                             3-1918
              Uncl Baldwin 12806 7
Ex W.V.R.R. "A. F. Baker":
                                                      2-6-0
                                                             18x24"
                                                                      54"
                                                                             94200
1460
                                             7-1892
                                                                                Sc
                                                                                      6-1916
1460
              B-9a
                     P&R
                                             3-1918
              B-9a
                     P&R
1461
                                            12-1916
1462-1464
              B-9a
                     P&R
                                             1-1917
              B-9a
                     P&R
1465
                                             2-1917
              B-9b(W) 23x28" 551/2"
                                           185# 175250 175250 41965#
1466-1468
              B-9b
                     P&R
                                             3-1917
              B-9b
                    P&R
                                             4-1917
     1469
     1470
              B-9b
                    P&R
                                             5-1917
     All of the above were rebuilt, reclassified B-9a, 1924-6
              E-5sa(W) 26x32" 551/2" 215# 280610 280610 71250#
                                   All built by Baldwin
1490
              58458
                                    6-1925
                                                  1495
                                                               57852
                                                                                      7-1924
1491
              58459
                                    6-1925
                                                  1496
                                                               57853
                                                                                      7-1924
1492
              58460
                                    6-1925
                                                  1497
                                                               57854
                                                                                      7-1924
                                                                                      7-1924
1493
              58461
                                    6-1925
                                                  1498
                                                               57932
                                    6-1925
1494
                                                  1499
                                                               57933
                                                                                      7-1924
              58462
                                           2-8-0
                                           210#
              I-8a(W)
                        22½x30"
                                    611/2"
                                                  203975
                                                           226250
                                                                    44080#
                                    61½"
61½"
              1-8b(W)
                           23x30"
                                            210#
                                                   211150
                                                           235650
                                                                     46060#
                                            210#
                                                   221837
                                                            246050
              1-8c(W)
                           23x30"
                                                                     46060#
              I-8sb
                          23x30"
                                    611/2"
                                           210#
                                                  211150
                                                           235650
                                                                     46060#
                                    551/2"
                                           210#
                                                           231950
              I-8sd
                        233/ax30"
                                                  208275
                                                                    54425#
                                    Built by Baldwin
1501
             26325
                        8-1905
                                    5-1941
                                                  1534 I-8a
                                                                        11-1905
                                                                                     10-1940
      I-8a
                                                               26836
1502
      I-8a
              26341
                        9-1905
                                   10-1940
                                                  1535
                                                        1-8a
                                                                26889
                                                                         11-1905
                                                                                     sb-1919
1503
      1-8a
              26357
                        9-1905
                                   sb-1930
                                                  1536
                                                        1-8a
                                                                        11-1905
                                                                                      5-1941
                                                               26898
      1-8a
                                                        I-8a
                                                                                      b-1915
1504
              26358
                        9-1905
                                   sb-1919
                                                  1537
                                                               26919
                                                                        11-1905
                                   10-1940
                                                                        11-1905
                                                                                     sb-1927
1505
              26359
                       9-1905
      I-8a
                                                  1538
                                                        1-8a
                                                               26937
1506
      1-8a
              26360
                        9-1905
                                   10-1940
                                                  1539
                                                        1-8a
                                                               26938
                                                                        11-1905
                                                                                      5-1941
1507
      1-8a
              26385
                                    b-1915
                                                  1540
                                                        1-8a
                                                                                     sb-1927
                       9-1905
                                                               26954
                                                                        12-1905
      I-8a
                                                  1541
1508
              26393
                       9-1905
                                    5-1941
                                                        I-8a
                                                               26955
                                                                        12-1905
                                                                                     sb-1930
      1-8a
             26400
                       9-1905
                                                               26963
1509
                                    5-1941
                                                  1542
                                                        I-8a
                                                                        11-1905
                                                                                      5-1941
      1-8a
1510
              26401
                       9-1905
                                   sb-1930
                                                  1543
                                                        1-8a
                                                               27012
                                                                        12-1905
                                                                                     10-1940
1511
      1-8a
              26413
                       9-1905
                                    5-1941
                                                  1544
                                                        I-8a
                                                               27013
                                                                        12-1905
                                                                                     b-1915
1512
      I-8a
              26418
                       9-1905
                                    5-1941
                                                  1545
                                                        1-8a
                                                               27014
                                                                        12-1905
                                                                                     sd-1920
                                                                                     sb-1920
                       9-1905
                                    b-1917
1513
      I-8a
              26438
                                                  1546
                                                        I-8a
                                                               27015
                                                                        12-1905
1514
      1-8a
              26439
                       9-1905
                                    5-1941
                                                  1547
                                                        1-8a
                                                               27029
                                                                        12-1905
                                                                                      5-1941
1515
      1-8a
                                   sb-1930
                                                  1548
                                                        I-8a
                                                                                     sb-1927
              26455
                       9-1905
                                                               27030
                                                                        12-1905
      I-8a
                                                  1549
                                                        1-8a
1516
             26470
                       9-1905
                                   sb-1927
                                                               27031
                                                                        12-1905
                                                                                      5-1941
                                                               27032
                                                                        12-1905
1517
      1-8a
             26471
                       9-1905
                                   sb-T928
                                                 1550
                                                        I-8a
                                                                                     sb-1936
      1-8a
1518
              26486
                       9-1905
                                   sb-1916
                                                  1551
                                                        1-8a
                                                               27043
                                                                        12-1905
                                                                                     sb-1920
1519
      1-8a
                                   sb-1916
                                                        1-8a
                                                                        12-1905
                                                                                     b-1914
             26487
                       9-1905
                                                 1552
                                                               27044
1520
      I-8a
             26498
                       9-1905
                                   sb-1919
                                                 1553
                                                        1-8a
                                                               27045
                                                                        12-1905
                                                                                     sb-1930
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Reading #1711-M-1sa, Baldwin, 1915, at Reading, Pa.



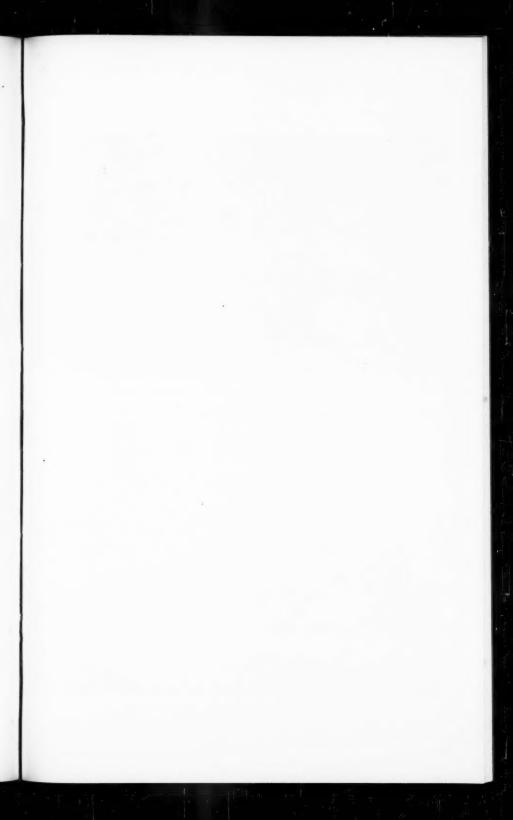
Reading #1814-N-1sd, Reading Shops, 1918, at St. Clair, Pa.

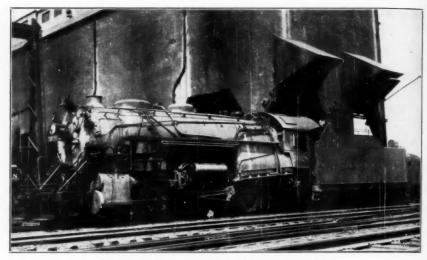
1521	I-8a	26502	9-1905	sb-1919	1554	I-8a	27064	12-1905	b-1915
1522	1-8a	26526	10-1905	sb-1919	1555	I-8a	27065	12-1905	sb-1915
1523	I-8a	26527	10-1905	5-1941	1556	I-8a	27080	12-1905	5-1941
1524	1-8a	26549	10-1905	sb-1935	1557	I-8a	27081	12-1905	sb-1927
1525	I-8a	26569	10-1905	sb-1929	1558	I-8a	27108	12-1905	sb-1930
1526	1-8a	26580	10-1905	10-1940	1559	I-8a	27129	12-1905	sb-1920
1527	I-8a	26602	10-1905	5-1941	1560	1-8a	27145	12-1905	sb-1920
1528	1-8a	26603	10-1905	b-1914	1561	I-8a	27146	12-1905	sb-1919
1529	1-8a	26615	10-1905	sd-1918	1562	I-8a	27169	12-1905	sb-1914
1530	I-8a	26634	10-1905	5-1941	1563	I-8a	27170	12-1905	sb-1931
1531	I-8a	26713	10-1905	b-1917	1564	1-8a	27195	12-1905	sb-1920
1532	I-8a	26732	10-1905	b-1915	1565	I-8a	27236	1-1906	5-1941
1533	1-8a	26789	11-1905	sd-1920					

The date at the extreme right, where month is given, is date engine was retired. When rebuilt and classification changed, the classification letters and year rebuilt are given in place of date of retirement. All of these engines are still in service.

		Built in Re	ading Shops		
1566-1569 1570-1578	I-8a I-8a	5-1910—1571 sb 1 1575 sb 1	917, 1568 b 917, 1573 sb 917, 1576 sb	1914, 1569 sł 1919, 1574 b 1927, 1577 b	1914 1914 1918
1579-1585	I-8a	1578 sb 1 6-1910—1579 sb 1	919, 1570 & 1 920, 1582 sd 916, 1585 b	1972 Sc. 5-1941 1919, 1583 sc 1918, 1580 sc	
1586-1594	I-8b	11-1912-1587 sb 1	917, 1588 sb	1919, 1589 sk	
1595-1605 1606-1610 1611 1612-1615 1616 1617	I-8b I-8b I-8sb I-8b I-8c I-8c		917, 1599 sb 1936 916—all others o sd 5-1918		1602 Sc. 2-1937
	I-9sb(W)	25x32" 55½" 210	# 257600 28	5000 64300#	
		All built I	y Baldwin		
1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637	53989 54023 54128 54129 54176 54177 54178 54178 54180 54181 54182 54327 54328	11-1920 11-1920 11-1920 11-1920 12-1920 12-1920 12-1920 12-1920 12-1920 12-1920 12-1920 1-1921	1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649	54368 54369 54370 54371 54372 54373 54374 54376 54510 54545 54487	1-1921 1-1921 1-1921 1-1921 1-1921 1-1921 1-1921 1-1921 1-1921 1-1921 1-1921
	I-9sa(W)	25x32" 55½" 210	# 251920 28	1700 64300#	
		All Built	by Baldwin		
1650 1651 1652 1653 1654	49351 49401 49475 49635 49636	7-1918 7-1918 8-1918 8-1918 8-1918	1661 1662 1663 1664 1665	50992 51084 51172 51173 51174	12-1918 1-1919 1-1919 1-1919

1655 1656 1657 1658 1659 1660	49662 49733 49825 49859 50131 50878	8-1918 9-1918 9-1918 9-1918 10-1918 12-1918	1666 1667 1668 1669	51194 51195 51345 51485	2-1919 2-1919 2-1919 3-1919
	I-9sb(W) 2	5x32" 55½" 210g All Built b		285000 64300#	
1670 1671 1672 1673 1674 1675 1676 1677 1678 1680 1681 1682 1683 1684	52396 52397 52398 52445 52446 52447 52494 52496 52497 52498 52521 52522 52523 52524	10-1919 10-1919 10-1919 10-1919 10-1919 11-1919 11-1919 11-1919 11-1919 11-1919 11-1919 11-1919	1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698	52556 52557 52579 52580 52581 52582 52606 52607 52608 52609 52610 52611 52612 52613 52614	11-1919 11-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919 12-1919
		2-8	-2		
	as of 12-1944	24x32" 61½" 215 25x32" 61½" 225	# 249700	334425 54700# 334425 62200#	
		All built by Baldw			10 1011
1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713		9-1912 12-1913 12-1913 1-1914 1-1914 1-1914 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915	1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 5 the others	42680 42681 42682 42683 42684 42685 42686 42728 42729 42730 42731 42732 42733 4 has 24x32" cyl.	12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915 12-1915
	and T. E. 57320#		_		
		25x32" 61½" 225 24x32" 55½" 215		334425 62200# 332225 60690#	
		All built by			
1727-1 1730-1 1733-1 1737-1 1739-1	732 42823-4 735 42906-4 736 4329-4	2825 1-1916 2908 2-1916 2939 2-1916 4330 11-1916	6 6 6		





Reading #2028-I-10sa, Baldwin, 1925, at Rutherford, Pa.



Reading #3003-K-1sa, reb. Reading Shops, 1929, at Rutherford, Pa.

1742-1743	44474-44475	11&12-1916
1744-1748	44577-44581	12-1916
1749-1751	44619-44621	12-1916
1752	44674	12-1916
1753-1755	44814-44816	1-1917
1756	44870	1-1917

Delivered as M-1sb locomotives, 1747-1756 were rebuilt to M-1sa between 6-1928 and 1-1929; 1727-1746 between 10-1941 and 12-1943.

2	0	0	2
4	-0-	0	-4

	N-lsa(W) N-lsc(W)	40&26x32 <sup>6</sup> 40&26x32 <sup>6</sup>		210# 438800 210# 435500	478500 478500	98400# 98400#	
		A	ll built	by Baldwin			
1800	N-1sa	44890	1-1917	1806	N-1sc	48941	6-1918
1801	N-1sa	45058	2-1917	1807	N-1sc	49088	6-1918
1802	N-Isa	45118	2-1917	1808	N-1sc	49238	7-1918
1803	N-1sa	45278	3-1917	1809	N-1sc	49349	7-1918
1804	N-1sa	45279	3-1917	1810	N-1sc	49487	8-1918
1805	N-Isa	45341	3-1917				
	PRO12 2 2						

N-lsa 45341 3-1917
The above engines were rebuilt to 2-10-2 type, renumbered in the 3000's and will be found in their proper place.

	N-1sb(W N-1sd(W	7) 40&26: 7) (4) 23:		210# 435500 215# 465430	478500 500700	98400# 111400#	
1811	N-1sc	49546	8-1918	1821	N-1sb	51715	4-1919
1812	N-1sc	49735	9-1918	1822	N-1sb	51769	5-1919
1813	N-1sc	50133	10-1918	1823	N-1sb	51827	5-1919
1814	N-1sc	50875	12-1918	1824	N-1sb	51905	6-1919
1815	N-1sc	50940	12-1918	1825	N-1sb	51939	6-1919
1816	N-1sb	51080	1-1919	1826	N-1sb	51975	6-1919
1817	N-1sb	51203	2-1919	1827	N-1sb	51993	6-1919
1818	N-1sb	51406	2-1919	1828	N-1sb	52073	7-1919
1819	N-1sb	51519	3-1919	1829	N-1sb	52095	7-1919
1820	N-1sb	51648	4-1919	1830	N-1sb	52238	7-1919
	C f 41027	-11 L	have ashedle	A- aless MI Is.	1 bateria	1020 1	1044 have

Save for #1827, all have been rebuilt to class N-1sd between 1930 and 1944, but trailers were removed 2-8-8-0 type, 10-1940 to 10-1944.

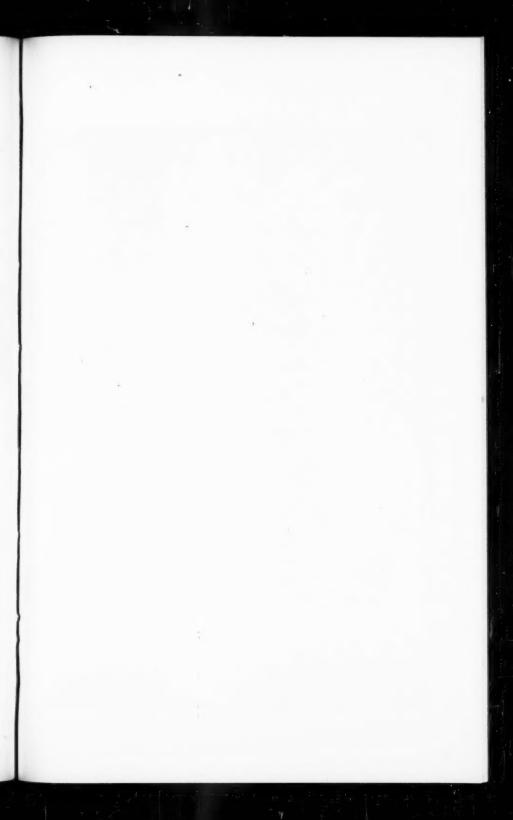
#### 2-8-0

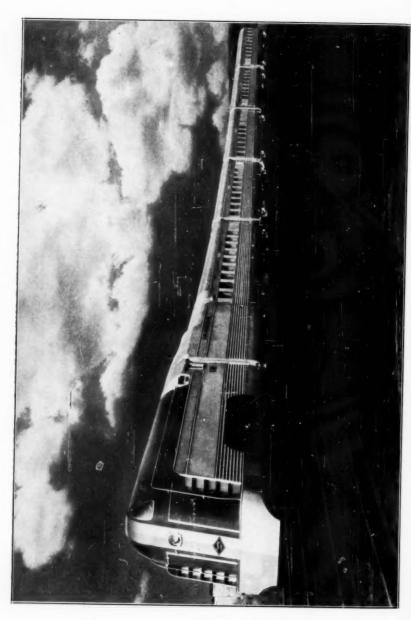
	I-9sb(W)	25x32"	55½ All	" 210# built by	 285000	64300#
1900		55357		3-1922		
1901-1906	55405	-55410		5-1922		
1907-1910	55463	-55466		6-1922		
1911		55469		6-1922		
1912		55472		6-1922		
1913-1914	55504	-55505		7-1922		
1915-1920	55543	-55548		8-1922		
1921-1924	55618	-55621		9-1922		

I-10sa(W)	27x32"	611/2"	220#	284190	314950	71000#
		All buil	lt by	Baldwin		
The second of the second						

2000-2008	57348-57356	10-1923
2009-2018	57507-57516	11-1923
2019-2023	57577-57581	12-1923

2024 2025-2027 2028-2033 2034-2039 2040-2045 2046-2047 2048-2049	57596 58217-58219 58258-58263 58275-58280 58325-58330 58371-58372 58382-58383	12-1923 2-1925 3-1925 3-1925 3-1925 5-1925 5-1925			
		2-10-2			
	K-lsa(W3 30½x32" K-lsb(W) 30½x32" K-lsc(W) 30½x32"	61½" 220# 61½" 225# 61½" 220#	353050 439800 363900 451000 353050 439800	90500# 92570# 90500#	
3000 1801 3001 1800 3002 1802 3003 1805 3004 1806 3005 1808 3006 1807 3007 1809 3008 1803	K-isa RDG Co.*				3-1927 10-1928 12-1928 1-1929 3-1929 4-1929 5-1929 7-1929 9-1929
3009 1804 3010 1810 3011-3012 3013-3015 3016-3017 3018 3019-3020	K-Isa RDG Co.* K-Isc RDG Co.* K-Isb Baldwin K-Isb Baldwin K-Isb Baldwin K-Isb Baldwin K-Isb Baldwin		6-1939 RDG* 61617-61618 61614-61626 61638-61639 61640 61650-61651	K-1sa	11-1929 7-1942 4-1931 5-1931 6-1931 7-1931 7-1931





Reading #118 on the "Crusader" between Philadelphia and New York. G-1ces, Reading Shoes, 1918.

## Valve Gear and Type of Valves

Engines of all classes, other than those shown below, were equipped with Stephenson valve gear and slide valve cylinders.

All engines having Vauclain Compound cylinders were equipped

with Stephenson gear and piston valves.

Engines 616 and 3010 were equipped with Caprotti gear and valves. A number of the I-7 class engines were later equipped with Economy Steam Chests, a piston valve steam chest, which fitted on to the old slide valve cylinders.

The engines of the following classes had Walschaert Valve gear

and piston valves, unless otherwise noted:

B-8a—Stephenson gear when built. Changed to Walschaert. Slide valves.

B-8b, B-9a, B-9b.

C-1a-(4-4-4)

Reading Shops,

G-1:00,

York.

New

and

Philadelphia

Detween

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D-8sd, D-11s.

E-3b, slide valves. E-5sa

All G classes (4-6-2)

Some I-2e and I-2f had Walschaert gear and slide valves. Others Stephenson.

I-6d, slide valves. I-8b, I-8sb, I-8c, I-8sd, I-9sa, I-9sb, M-10a, J-1a. K(2-10-2) K-1sa, K-1sb.

L-3se, L-5sc, L-7b, L-7sb, L-8sc. (L-8d, slide, L-8se, L-10a, L-10b, L-10sb.

M (2-8-2) M-1a, M-1sa, M-1sb.

All N classes (2-8-8-2 and 2-8-8-0) N-1sa, N-1sb, N-1sce, N-1sd.

P-2b, P-3d, P-4d, P-4e, P-4f. All slide valves.

All P-5 classes except a and b.

All P-6 and P-7 classes.

Q-1c and Q-1d. Slide valves.

All locomotives and classes noted with wide fireboxes have middle cabs except the following:

B-2-a

B-4-a

B-9-a, b

C-1-a (4-4-4)

D-11s

E-5-s-a

G-1-s-a, b

G-1-s-a-s

G-2-s-a

I-9-s-a, b

I-10-s-a

J-1-s-a

K-1-s-a, b, c

L-6-s-a

M-1-s-a, b

N-1-s-a, b, c, d

P-7-s-a, b

Q-1-a, b, c, d #100—Inspection 4-4-2 #1452 Unclassified, renumbered 528 (?)

### The Unclassified Locomotives

At the time the present classification system was put into effect, there were, beside the inspection engines, 20 locomotives whose design and specifications did not conform to any of the standard classes, and were designated as "Unclassified." They bore road numbers 7, 81, 89, 90, 91, 110, 111, 118, 232, 236, 316, 317, 484, 485, 486, 487, 488, 1251, 1452 and 1453. The inspection engines were numbered 101, 102 and 103. Shortly after this time, a new 4-4-0 inspection engine was built and placed on the unclassified list, and was renumbered 102, in 1913, to make room for the new 4-4-2 inspector, built in that year. Old Nos. 102 and 103 had since been scrapped and the latter was replaced by No. 116, which had been rebuilt as an inspector, and "unclassified," from C3-a.

Nos. 7, 316 and 317 were rebuilt and assigned standard classification. The other 17 remained on the unclassified list during the re-

mainder of their time on the road.

In addition to the above there were No. 145 and the engines of the Catasauqua & Fogelsville R. R. and Wilmington & Northern R. R., which were not classified, neither were they placed on the original unclassified list at that time, although they later were so placed. The C. & F. engines were numbered 92, 93, 94, 95 and 96. The W. & N. engines were numbered 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 581, 582, 583, 584, 585, 586, 1021, 1022, 1241, 1242, 1243, 1244, 1245, 1307, 1308, 1309 and 1310. It is evident that these engines, with the exception of those that may have been scrapped in the meantime, were placed on the Unclassified List, at some time between April, 1900, and November, 1903.

Another group, consisting of a large number of engines, all from acquired lines, were definitely classified, as of April, 1900, and were subsequently declassified and placed on the unclassified list. Although the reason for this change is rather obscure, it appears that the engines in these classes, while generally similar, varied to the extent that they were not identical. To eliminate the condition of having dis-similar locomotives in the same class, or to eliminate from the classification system all engines of other than standard P. & R. design, such engines were unclassified, thereby limiting classification to locomotives whose origin was on the P. & R. Included in this group were the following:

Road No.			From Class		
112	thru	115*	C2-a		
	116		С3-а	(To	Inspector)
	120*		C4-a		
142	thru	144*	C7-a		
226	thru	229	D6-a		
	230		D6-b		

522 thru 524\* H5-a 525 thru 526\* H6-a 527 thru 530\* H7-a 1202-1203\* A2-b 1234 A3-b 1235\* A3-a 1236 thru 1239\* A3-b 1450-1451 N1-a

\*Some may have been scrapped before de-classification took place.

No. 1460, received from the Williams Valley R. R., was placed on the Unclassified List, as were the two engines received from the Mt. Carmel & Natalie R. R., numbered 526 and 527 (the second engines to bear these numbers).

When the Reading took over the Bloomsburg & Sullivan R. R., on December 31, 1928, they acquired B. & S. engines numbered 5, 6 and 10, which carried their original numbers until they were sold, in June, 1929.

These engines were never classified.

#### **Abbreviations**

It has been necessary in lists of this nature, to use some abbreviations and they are as follows:

\*Rebuilt \*\*Rebuilt and Renamed Expl—Exploded Sc—Scrapped Ret—Retired

a—following the date indicates the date the locomotive was acquired by the P & R and used because the date of construction in most cases is unknown.

w-locomotive has a wide firebox.

ALCo — American Locomotive Co., New York, N. Y. BLW — Baldwin Locomotive Works, Philadelphia, Pa.

B&SRR — Bellefonte & Snow Shoe R. R.
CW&ERR — Catawissa, Williamsport & Erie

CW&ERR — Catawissa, Williamsport & Erie R. R.
 DB&K — Davenport, Bridges & Kirk, Cambridgeport, Mass.

E&H — Eastwick & Harrison, Philadelphia, Pa.
EMC — Electro-Motive Corp., La Grange, Ill.

H&PRR - Harrisburg & Potomac R. R.

HB&Co. — Hayward, Bartlett & Co., Baltimore, Md.

L&C — Locks & Canals Co., Lowell, Mass.
LSRR — Little Schuylkill R. R.

Lanc — Lancaster, to distinguish between the Norris engines built at Philadelphia and Schenectady (Schen.), N. Y.

MHRR — Mine Hill R. R.
Schen — See Lanc. above
WVRR — Williams Valley R. R.

W&DRR — Williamstown & Delaware River R. R.

W&N - Wilmington & Northern R. R.

## New Books

"SLOW TRAIN TO YESTERDAY," by Archie Robertson, 189 pages, 13/4x5, illustrated, bound in cloth, price \$3.00 Published by Houghton

Mifflin Co., 2 Park St., Boston, Mass.

The author of this book was born and brought up in Louisville, Kentucky, a city that is not only a rail center but was a busy interurban center until the coming of the 'bus and automobile. He entered the newspaper field and he has been a teacher, publicity representative, and he has been in various Governmental departments—Agriculture, Commerce and U. S. Housing Authority. His travels have taken him over many of our short railroads and to some remote places and his book is a chronicle of these wanderings, together with his impressions of the people. We find him in New England, riding our Suncook Valley and the St. J. & L. C., we find him in Colorado riding the Denver & Salt Lake but his favorite little road appears to be the "Tweetsie"—the East Tennessee & Western North Carolina R. R.

Throughout it all the author has conveyed to the reader his impressions of these little lines, the men that run them and the people that ride them and the territory they serve. There is a good deal of humor and pathos throughout the entire narrative. The little book is well illus-

trated and the sketches will delight anyone.

These little railroads are rapidly disappearing from this land of ours and now, with the conclusion of this war they soon promise to be nothing more than a memory. The author should be commended in setting down his experiences in such an enchanting fashion, the only regret is that more could not have been included in this little book.

"RAILROAD AVENUE," by Freeman Hubbard, 374 pages, 9x6, illustrated, bound in cloth, price \$3.75. Published by Whittlesey House. McGraw-Hill Book Co., New York, N. Y.
Freeman Hubbard, for over fifteen years on the staff of Railroad

Freeman Hubbard, for over fifteen years on the staff of Railroad Magazine as Editor and Research Editor needs no introduction to our membership. Son of a railroad man and having done some railroading

along with his other work, he knows whereof he speaks.

Railroad Avenue is a book dealing with the best stories and legends of American Railroading. Here we find the story of Casey Jones; the wreck of old 97; the Johnstown flood; the great Hinckley fire; the last run on the Woodstock Railway and other chapters of equal interest. Some of these stories are better known than others and, as time has passed, the narrator has been tempted to include facts that perhaps were not so. In each and every instance the author has carefully followed through each story, sifting the facts from the supposed-to-be facts. It is quite evident that this was uppermost in the preparation of this work and for this painstaking research, he has our debt of gratitude. To those of us who love our pets, his chapter on "Raildogs" will have an especial appeal by the loyalty shown by these dumb beasts. But without being critical, there is one rather amusing error that the author has

made, and, I daresay he has heard from it already. In his narrative of the famous #999 on the New York Central & Hudson River R. R., he states that Mr. Daniels, the capable General Passenger Agent of that road, arranged with the Post Office Department to have that locomotive on the "Empire State Express" depicted on one of the stamps in the Columbian Exposition series, printed in 1893. Recalling my own stamp collecting days and, backed up by the publications of our own Post Office Department, it was not until the Pan-American issue of 1901, printed to commemorate that exposition in Buffalo, N. Y., that the "Empire State Express" adorned the 2c stamp of that issue and, the locomotive on that train appears to be the #938—not the #999. However, this error is only a trifle—the famous #999 adorned children's books, puzzles, toy trains without end—she had plenty of fame even if she never was depicted on one of our postage stamps.

There is another interesting chapter on the origin of various railroad emblems and another on railroad lingo that will be of interest to the reader. For anyone who wishes a truthful and interesting account of our better known railroad legends and stories, he should own a copy of this book. Mr. Hubbard deserves to be commended for his research,

his presentation and capable narrative.

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"The Role of Transportation in the Development of Vermont," by Col. William J. Wilgus, 104 pages, 1034x8, illustrated with maps and charts, bound in cloth, price \$3.00. Published by the Vermont Historical Society, Montpelier, Vermont, limited edition.

To those that know and love our "Green Mountain State," this book will have great appeal. Vermont is the only New England state that does not touch the ocean, she is hemmed in by the Adirondack, White and Berkshire mountains and although the northern portion is a broad, level country, it is here that she touches Canada. Within her own borders, the Green Mountains run north and south and it is only through a limited number of gaps that one can go from east to west or vice versa. But for all that, Vermonters had access to Lake Champlain on the west, with a northern outlet flowing into the St. Lawrence River and its Wood Creek, to the south, flowing into the Hudson. On the east was the Connecticut River forming its eastern boundary. Such are the geographical handicaps and advantages of this State.

The author has made a very careful survey of the resources; population; its early form of transportation; steamboats, canals and turnpikes and railroads. He has also presented an account of the rival

claims and the external influences.

Col. Wilgus, creator of the Grand Central Terminal in New York City has had a long and distinguished career as an engineer and railroad executive. He was also the organizer of the French railways for the reception and delivery of supplies for the American Expeditionary Forces in 1917-1919. He is the author of many transportation studies, one of his most recent is his "Railway Interrelations of the United States and Canada." He has not attempted to give in detail a complete his-

tory of transportation of this state, rather he has presented a study of the part that transportation has played in the shaping of Vermont. His maps, in visual form, are worth many lines of text and his work should be of great interest and value to the student of economics and history.

"Steelways of New England," by Alvin F. Harlow, 461 pages, 8x5, illustrated, bound in cloth, price \$3.50. Published by Creative

Age Press, Inc., New York, N. Y.

This is the first of a series of sixteen volumes, planned by the publishers, covering the history of our railroads and if those that follow are as interesting and done as well as the first of this series, they will be a valued addition in any library. Although this is the first attempt of the author in the railroad field, he has made valuable contributions

on the express industry in his "Old Waybills."

In this volume the author has wisely spent no little time and research and devoted no little space in describing conditions in New England prior to the construction of the first railroads. In turn the earliest and the more important of our New England railroads are covered; the Boston & Lowell; Boston & Providence; Boston & Worcester; the Western; Boston & Maine; New York, New Haven & Hartford; New York & New England; the Old Colony; the Fitchburg; Vermont Central; the Concord; the Maine Central and the "Thin Gaugers." All are well covered in a delightful fashion and are not hampered with mechanical or financial details.

But it is in the subsequent chapters that the author has been at pains to record what New England and its men have contributed to the railroad industry. The first railroad in America, as we view a railroad today, was the horse-operated line at Quincy, Mass. Thirty-five years before Pullman a Massachusetts man designed a sleeping car; the Naugatuck R. R. operated a vestibule train in 1857; the first real large tunneling project was the Hoosac, started in 1855 and as for the New England "captains of industry" they were connected with the building and the completion of the first three transcontinental railways and several

others besides.

It has taken a New Yorker to record in an interesting fashion for the lay man and those who are interested in railway history, a graphic account of our New England railways and her men. That he has done a fine job, no one can deny after reading this book. He deserves our praise and commendation and we are glad that he is in our midst. The book is a valuable addition to any railroad library.

# In Memory of

JULIUS MURRAY BLANCHARD
Honorary Member
Librarian, The Traffic Club of Chicago, Chicago, Illinois
who died on November 20, 1942.

KENNETH W. CRABB
Annual Member
25 Lomond Road, Edinburgh, Scotland, who died on October 15, 1944.

G. N. Edmondson
Annual Member
90 Bryant Ave., White Plains, N. Y.
who died on August 11, 1944.

W. B. Harrison Annual Member 4843 Dorchester Ave., Chicago, Ill., who died on December 15, 1944.

H. B. LYMAN
Annual Member
Southampton, Massachusetts,
who died on December 1, 1945.

C. F. DENDY MARSHALL
Annual Member
Chinthurst Lodge, Wonersh, Guildford, England,
who died on June 14, 1945.

A. P. MILLER
Annual Member
Needles, California,
who died on November 11, 1944.

BENJAMIN NIELDS
Annual Member
10600 Quincy Ave., Cleveland, Ohio,
who died on February 26, 1945.

HENRY SHAPCOTE
Annual Member
Laurel Bank, South Brent, Devon, England,
who died on February 6, 1945.

E. H. ZIEBEL, Chairman Chicago Chapter Annual Member Chicago, Illinois, who died on May 30, 1945.

